

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Natural Gasoline

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : LP Gas, Y-Grade, LPG, Raw Feed, Demthanized Raw Feed Mix  
Restrictions on use : None known

#### 1.4. Supplier's details

Alliance Energy Services  
1828 Swift St. Suite 401  
North Kansas City, MO 64116  
T 816-421-5192  
[info@allianceC3.com](mailto:info@allianceC3.com)

#### 1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)  
CCN 612383  
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                                                                        |      |                                                                                                              |
|------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
| Flammable liquid, Category 1                                           | H224 | Extremely flammable liquid and vapor.                                                                        |
| Skin corrosion/irritation, Category 2                                  | H315 | Causes skin irritation.                                                                                      |
| Germ cell mutagenicity, Category 1B                                    | H340 | May cause genetic defects.                                                                                   |
| Carcinogenicity, Category 1A                                           | H350 | May cause cancer.                                                                                            |
| Reproductive toxicity, Category 2                                      | H361 | Suspected of damaging fertility or the unborn child.                                                         |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 | May cause drowsiness or dizziness.                                                                           |
| Specific target organ toxicity — Repeated exposure, Category 1         | H372 | Causes damage to organs (blood, immune system) through prolonged or repeated exposure.                       |
| Specific target organ toxicity — Repeated exposure, Category 2         | H373 | May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure. |
| Aspiration hazard, Category 1                                          | H304 | May be fatal if swallowed and enters airways.                                                                |

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

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## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements (GHS US)        | : H224 - Extremely flammable liquid and vapor<br>H304 - May be fatal if swallowed and enters airways<br>H315 - Causes skin irritation<br>H336 - May cause drowsiness or dizziness<br>H340 - May cause genetic defects.<br>H350 - May cause cancer.<br>H361 - Suspected of damaging fertility or the unborn child<br>H372 - Causes damage to organs (blood, immune system) through prolonged or repeated exposure<br>H373 - May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Precautionary statements (GHS US) | : Obtain special instructions before use.<br>Do not handle until all safety precautions have been read and understood.<br>Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.<br>Keep container tightly closed.<br>Ground/Bond container and receiving equipment.<br>Use explosion-proof equipment.<br>Do not breathe mist, spray, vapors.<br>Wash hands, forearms and face thoroughly after handling.<br>Do not eat, drink or smoke when using this product.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves.<br>If swallowed: Immediately call a poison center or doctor.<br>Do NOT induce vomiting.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>If skin irritation occurs: Get medical advice or attention.<br>Wash contaminated clothing before reuse.<br>If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>If exposed or concerned: Get medical advice/attention.<br>In case of fire: Use appropriate media to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Keep cool.<br>Store locked up.<br>Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations. |

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name                                 | Product identifier  | %         | GHS US classification                                                                                                                                                     |
|--------------------------------------|---------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gasoline (natural gas), natural      | CAS-No.: 68425-31-0 | ≤ 100     | Flam. Liq. 1, H224<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304                                                                                         |
| Pentane (mixed isomers)              | CAS-No.: 78-78-4    | 23 – 66   | Flam. Liq. 1, H224<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                                                            |
| Hexane Isomers (other than n-Hexane) | CAS-No.: 107-83-5   | 10 – 15   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                                     |
| Heptane (mixed isomers)              | CAS-No.: 142-82-5   | 7 – 13    | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                     |
| Hexane                               | CAS-No.: 110-54-3   | 6 – 10    | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 1, H372<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |
| Octane                               | CAS-No.: 111-65-9   | 0.5 – 5   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                     |
| Butane                               | CAS-No.: 106-97-8   | 0.2 – 4.5 | Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280<br>Simple Asphy. 1, SIAS                                                                                                   |
| Nonane                               | CAS-No.: 111-84-2   | ≤ 2.5     | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                     |

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| Name         | Product identifier | %       | GHS US classification                                                                                                                                                                           |
|--------------|--------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toluene      | CAS-No.: 108-88-3  | ≤ 2     | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304                                                                           |
| Benzene      | CAS-No.: 71-43-2   | 0.1 – 2 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Muta. 1B, H340<br>Carc. 1A, H350<br>STOT RE 1, H372<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |
| Cyclopentane | CAS-No.: 287-92-3  | 1 – 1.5 | Flam. Liq. 2, H225<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                                                                                                                          |
| Ethylbenzene | CAS-No.: 100-41-4  | 0.15    | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Carc. 2, H351<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401                                                  |

Comments : The concentration ranges are provided due to batch-to-batch variability.

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but, not mouth-to-mouth. Call a physician immediately.                                    |
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious: Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                                                                                                                                                                                         |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                                                                                       |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a physician immediately.                                                                                                                                                                           |

### 4.2. Most important symptoms/effects, acute and delayed

|                                     |                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Aspiration of the product into the lungs may cause pneumonia. May cause drowsiness or dizziness. Causes damage to organs (blood, immune system) through prolonged or repeated exposure. May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure. |
| Symptoms/effects after skin contact | : Irritation (itching, redness, blistering).                                                                                                                                                                                                                                                           |

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|                                    |                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after eye contact | : May cause eye irritation.                                                                                                                                                                                                                                                                             |
| Symptoms/effects after ingestion   | : May be fatal if swallowed and enters airways.                                                                                                                                                                                                                                                         |
| Chronic symptoms                   | : May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (blood, immune system) through prolonged or repeated exposure. May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure. |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Other medical advice or treatment | : IF exposed or concerned: Get medical advice/attention. Following inhalation: Subsequent observance for pneumonia and lung edema. |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| Suitable extinguishing media   | : Dry chemical, CO2, alcohol-resistant foam or waterspray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                         |

### 5.2. Specific hazards arising from the chemical

|                                                  |                                                                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard                                      | : Extremely flammable liquid and vapor.                                                                                                                                  |
| Explosion hazard                                 | : Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Vapors may form explosive mixture with air. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.                                                                                                          |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. For large fire: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting devices or discoloration from tank. For a massive fire, use unmanned hose holders or monitor nozzles, or withdraw from the area and allow fire to burn. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                                                                                                                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Avoid all personal contact including breathing in the mist, spray, vapors. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Stop leak if safe to do so. Remove ignition sources. Notify authorities if product enters sewers or public waters. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### For non-emergency personnel

|                      |                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                                                                                                                                                                                                                                             |
| Emergency procedures | : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. Do not breathe mist, spray, vapors. Avoid contact with skin and eyes. If possible without taking personal risks, remove ignition sources, ventilate area. Prevent other non-emergency personnel from entering the danger area. No open flames, no sparks, and no smoking. |

#### For emergency responders

|                      |                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear the recommended personal protective equipment. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate personnel to a safe area. Do not touch spilled material. Remove all sources of ignition. Stop leak if safe to do so.                                                                                 |

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Environmental precautions : Do not let the product reach soil, drains, sewers, or surface and ground water.

### 6.2. Methods and materials for containment and cleaning up

For containment : Contain with non-combustible inert absorbent. Stop leak, if possible without risk. Do not touch or walk on the spilled product. All equipment used when handling the product must be grounded. Reduce vapor with vapor-suppression foam. In case of large spillages: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Notify authorities if product enters sewers or public waters. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Do not breathe mist, spray, vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

Additional hazards when processed : Proper grounding procedures to avoid static electricity should be followed.

### 7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Keep container tightly closed. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Incompatible materials : Strong acids, strong bases and strong oxidants.

Packaging materials : Always store product in container of same material as original container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

#### Toluene (108-88-3)

##### USA - ACGIH® - Threshold Limit Values

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Toluene                                                                                                                                                           |
| ACGIH® TLV® TWA      | 20 ppm                                                                                                                                                            |
| Remark (ACGIH®)      | TLV® Basis: CNS, Hearing & Visual impair; Female repro system eff; Pregnancy loss. Notations: OTO (Ototoxicant); A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2026                                                                                                                                                        |

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|                                                                                      |                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toluene (108-88-3)</b>                                                            |                                                                                                                                                                                                                                                                                       |
| <b>USA - ACGIH® - Biological Exposure Indices</b>                                    |                                                                                                                                                                                                                                                                                       |
| Local name                                                                           | Toluene                                                                                                                                                                                                                                                                               |
| BEI                                                                                  | 0.3 mg/g Kreatinin Parameter: o-Cresol - Medium: urine - Sampling time: End of shift -<br>Notations: B<br>0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek<br>0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift |
| Regulatory reference                                                                 | ACGIH 2026                                                                                                                                                                                                                                                                            |
| <b>USA - OSHA - Occupational Exposure Limits</b>                                     |                                                                                                                                                                                                                                                                                       |
| Local name                                                                           | Toluene                                                                                                                                                                                                                                                                               |
| OSHA PEL TWA                                                                         | 200 ppm                                                                                                                                                                                                                                                                               |
| OSHA PEL C                                                                           | 300 ppm                                                                                                                                                                                                                                                                               |
| Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift | 500 ppm 10 mins.                                                                                                                                                                                                                                                                      |
| Regulatory reference (US-OSHA)                                                       | OSHA Annotated Table Z-2                                                                                                                                                                                                                                                              |
| <b>USA - NIOSH - Occupational Exposure Limits</b>                                    |                                                                                                                                                                                                                                                                                       |
| Local name                                                                           | Toluene                                                                                                                                                                                                                                                                               |
| NIOSH REL 10h TWA                                                                    | 100 ppm                                                                                                                                                                                                                                                                               |
| NIOSH REL STEL                                                                       | 150 ppm                                                                                                                                                                                                                                                                               |
| Regulatory reference (US-NIOSH)                                                      | OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                                                                                                                                                                                               |
| <b>Benzene (71-43-2)</b>                                                             |                                                                                                                                                                                                                                                                                       |
| <b>USA - ACGIH® - Threshold Limit Values</b>                                         |                                                                                                                                                                                                                                                                                       |
| Local name                                                                           | Benzene                                                                                                                                                                                                                                                                               |
| ACGIH® TLV® TWA                                                                      | 0.02 ppm                                                                                                                                                                                                                                                                              |
| Remark (ACGIH®)                                                                      | TLV® Basis: Myelodysplastic syndrome; acute myeloid leukemia; leukemia; hematologic eff; chromosomal dam. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI                                                                                                                       |
| Regulatory reference                                                                 | ACGIH 2026                                                                                                                                                                                                                                                                            |
| <b>USA - ACGIH® - Biological Exposure Indices</b>                                    |                                                                                                                                                                                                                                                                                       |
| Local name                                                                           | Benzene                                                                                                                                                                                                                                                                               |
| BEI                                                                                  | 25 µg/g Kreatinin Parameter: S-Phenyl mercapturic acid - Medium: urine - Sampling time: End of shift - Notations: B<br>500 µg/g Kreatinin Parameter: t,t-Muconic acid - Medium: urine - Sampling time: End of shift - Notations: B                                                    |
| Regulatory reference                                                                 | ACGIH 2026                                                                                                                                                                                                                                                                            |
| <b>USA - OSHA - Occupational Exposure Limits</b>                                     |                                                                                                                                                                                                                                                                                       |
| Local name                                                                           | Benzene                                                                                                                                                                                                                                                                               |
| OSHA PEL TWA                                                                         | 10 ppm                                                                                                                                                                                                                                                                                |
| OSHA PEL C                                                                           | 25 ppm                                                                                                                                                                                                                                                                                |
| Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift | 50 ppm 10 mins.                                                                                                                                                                                                                                                                       |

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| Benzene (71-43-2)                               |                                                                                                             |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Regulatory reference (US-OSHA)                  | OSHA Annotated Table Z-2                                                                                    |
| USA - NIOSH - Occupational Exposure Limits      |                                                                                                             |
| Local name                                      | Benzene                                                                                                     |
| NIOSH REL 10h TWA                               | 0.1 ppm                                                                                                     |
| NIOSH REL STEL                                  | 1 ppm                                                                                                       |
| Remark (NIOSH)                                  | Ca = Potential occupational carcinogens                                                                     |
| Regulatory reference (US-NIOSH)                 | OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                     |
| Pentane (mixed isomers) (78-78-4)               |                                                                                                             |
| USA - ACGIH® - Threshold Limit Values           |                                                                                                             |
| Local name                                      | Isopentane                                                                                                  |
| ACGIH® TLV® TWA                                 | 2950 mg/m³                                                                                                  |
|                                                 | 1000 ppm                                                                                                    |
| Remark (ACGIH®)                                 | TLV® Basis: Narcosis; resp tract irr                                                                        |
| Regulatory reference                            | ACGIH 2026                                                                                                  |
| Hexane Isomers (other than n-Hexane) (107-83-5) |                                                                                                             |
| USA - ACGIH® - Threshold Limit Values           |                                                                                                             |
| Local name                                      | 2-Methyl pentane                                                                                            |
| ACGIH® TLV® TWA                                 | 200 ppm                                                                                                     |
| Remark (ACGIH®)                                 | TLV® Basis: URT irr; lung dam. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference                            | ACGIH 2026                                                                                                  |
| Heptane (mixed isomers) (142-82-5)              |                                                                                                             |
| USA - ACGIH® - Threshold Limit Values           |                                                                                                             |
| Local name                                      | Heptane, isomers (n-Heptane)                                                                                |
| ACGIH® TLV® TWA                                 | 400 ppm                                                                                                     |
| ACGIH® TLV® STEL                                | 500 ppm                                                                                                     |
| Remark (ACGIH®)                                 | TLV® Basis: URT irr; Lung dam; CNS impair; Ototoxicity. Notations: OTO (Ototoxicant)                        |
| Regulatory reference                            | ACGIH 2026                                                                                                  |
| USA - OSHA - Occupational Exposure Limits       |                                                                                                             |
| Local name                                      | Heptane (n-Heptane)                                                                                         |
| OSHA PEL TWA                                    | 2400 mg/m³                                                                                                  |
|                                                 | 500 ppm                                                                                                     |
| Regulatory reference (US-OSHA)                  | OSHA Annotated Table Z-1                                                                                    |
| USA - NIOSH - Occupational Exposure Limits      |                                                                                                             |
| Local name                                      | Heptane (n-Heptane)                                                                                         |
| NIOSH REL 10h TWA                               | 85 ppm                                                                                                      |

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|                                                   |                                                                                             |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Heptane (mixed isomers) (142-82-5)</b>         |                                                                                             |
| NIOSH REL STEL                                    | 440 ppm [15-min]                                                                            |
| Regulatory reference (US-NIOSH)                   | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                     |
| <b>Hexane (110-54-3)</b>                          |                                                                                             |
| <b>USA - ACGIH® - Threshold Limit Values</b>      |                                                                                             |
| Local name                                        | n-Hexane                                                                                    |
| ACGIH® TLV® TWA                                   | 176 mg/m³                                                                                   |
|                                                   | 50 ppm Skin - potential significant contribution to overall exposure by the cutaneous route |
| Remark (ACGIH®)                                   | TLV® Basis: CNS impair; Peripheral neuropathy; Eye & URT irr. Notations: Skin; BEI          |
| Regulatory reference                              | ACGIH 2026                                                                                  |
| <b>USA - ACGIH® - Biological Exposure Indices</b> |                                                                                             |
| Local name                                        | n-Hexane                                                                                    |
| BEI                                               | 0.5 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: End of shift           |
| Regulatory reference                              | ACGIH 2026                                                                                  |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                                             |
| Local name                                        | n-Hexane                                                                                    |
| OSHA PEL TWA                                      | 1800 mg/m³                                                                                  |
|                                                   | 500 ppm                                                                                     |
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1                                                                    |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                                                                                             |
| Local name                                        | n-Hexane                                                                                    |
| NIOSH REL 10h TWA                                 | 50 ppm                                                                                      |
| Regulatory reference (US-NIOSH)                   | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                     |
| <b>Octane (111-65-9)</b>                          |                                                                                             |
| <b>USA - ACGIH® - Threshold Limit Values</b>      |                                                                                             |
| Local name                                        | n-Octane                                                                                    |
| ACGIH® TLV® TWA                                   | 1401 mg/m³                                                                                  |
|                                                   | 300 ppm                                                                                     |
| Remark (ACGIH®)                                   | TLV® Basis: URT irr                                                                         |
| Regulatory reference                              | ACGIH 2026                                                                                  |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                                             |
| Local name                                        | Octane                                                                                      |
| OSHA PEL TWA                                      | 2350 mg/m³                                                                                  |
|                                                   | 500 ppm                                                                                     |
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1                                                                    |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                                                                                             |
| Local name                                        | Octane                                                                                      |

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| Octane (111-65-9)                          |                                                                                                                                                                      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NIOSH REL 10h TWA                          | 75 ppm                                                                                                                                                               |
| NIOSH REL C                                | 385 ppm [15-min]                                                                                                                                                     |
| Regulatory reference (US-NIOSH)            | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                                                                              |
| Butane (106-97-8)                          |                                                                                                                                                                      |
| USA - ACGIH® - Threshold Limit Values      |                                                                                                                                                                      |
| Local name                                 | Butane                                                                                                                                                               |
| ACGIH® TLV® STEL                           | 2370 mg/m³ (EX - Explosion hazard)                                                                                                                                   |
|                                            | 1000 ppm (EX - Explosion hazard)                                                                                                                                     |
| Remark (ACGIH®)                            | TLV® Basis: CNS impair                                                                                                                                               |
| Regulatory reference                       | ACGIH 2026                                                                                                                                                           |
| Nonane (111-84-2)                          |                                                                                                                                                                      |
| USA - ACGIH® - Threshold Limit Values      |                                                                                                                                                                      |
| Local name                                 | Nonane                                                                                                                                                               |
| ACGIH® TLV® TWA                            | 1048 mg/m³                                                                                                                                                           |
|                                            | 200 ppm                                                                                                                                                              |
| Remark (ACGIH®)                            | TLV® Basis: CNS impair                                                                                                                                               |
| Regulatory reference                       | ACGIH 2026                                                                                                                                                           |
| Cyclopentane (287-92-3)                    |                                                                                                                                                                      |
| USA - ACGIH® - Threshold Limit Values      |                                                                                                                                                                      |
| Local name                                 | Cyclopentane                                                                                                                                                         |
| ACGIH® TLV® TWA                            | 1000 ppm (EX - Explosion hazard)                                                                                                                                     |
| Remark (ACGIH®)                            | TLV® Basis: CNS impair                                                                                                                                               |
| Regulatory reference                       | ACGIH 2026                                                                                                                                                           |
| Ethylbenzene (100-41-4)                    |                                                                                                                                                                      |
| USA - ACGIH® - Threshold Limit Values      |                                                                                                                                                                      |
| Local name                                 | Ethyl benzene                                                                                                                                                        |
| ACGIH® TLV® TWA                            | 20 ppm                                                                                                                                                               |
| Remark (ACGIH®)                            | TLV® Basis: URT & Eye irr; Kidney eff; Ototoxicity; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| Regulatory reference                       | ACGIH 2026                                                                                                                                                           |
| USA - ACGIH® - Biological Exposure Indices |                                                                                                                                                                      |
| Local name                                 | Ethyl benzene                                                                                                                                                        |
| BEI                                        | 0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns                            |
| Regulatory reference                       | ACGIH 2026                                                                                                                                                           |

# Natural Gasoline

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### Ethylbenzene (100-41-4)

#### USA - OSHA - Occupational Exposure Limits

|                                |                          |
|--------------------------------|--------------------------|
| Local name                     | Ethyl benzene            |
| OSHA PEL TWA                   | 435 mg/m <sup>3</sup>    |
|                                | 100 ppm                  |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

#### USA - NIOSH - Occupational Exposure Limits

|                                 |                                                                         |
|---------------------------------|-------------------------------------------------------------------------|
| Local name                      | Ethyl benzene                                                           |
| NIOSH REL 10h TWA               | 100 ppm                                                                 |
| NIOSH REL STEL                  | 125 ppm                                                                 |
| Regulatory reference (US-NIOSH) | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG)) |

### 8.2. Appropriate engineering controls

|                                  |                                                                                                                                                                                                                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Environmental exposure controls  | : Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.                                                                                                                                                                                        |

### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

#### Hand protection:

Wear protective gloves

#### Eye protection:

Wear safety glasses which protect from splashes

#### Skin and body protection:

Wear fire/flame resistant/retardant clothing. Chemical-resistant protective suit. Chemical resistant safety shoes.

#### Respiratory protection:

Use NIOSH approved respirator if ventilation is inadequate. SCBA for emergency responders. Must be used in accordance with an OSHA compliant respiratory protection program.

#### Personal protective equipment symbol(s):



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### SECTION 9 Physical and chemical properties

#### 9.1. Basic physical and chemical properties

|                                                 |                                                            |
|-------------------------------------------------|------------------------------------------------------------|
| Physical state                                  | : Liquid                                                   |
| Color                                           | : Colorless                                                |
| Odor                                            | : Hydrocarbon                                              |
| Odor threshold                                  | : No data available                                        |
| pH                                              | : No data available                                        |
| Melting point                                   | : No data available                                        |
| Freezing point                                  | : No data available                                        |
| Boiling point                                   | : 23 – 205 °C / 74 - 402 °F                                |
| Flash point                                     | : ≤ -17.8 °C / ≤ 0 °F                                      |
| Flammability (solid, gas)                       | : Extremely flammable liquid and vapor.                    |
| Vapor pressure                                  | : 3.4-15.3 psi @ 37.78 °C / 100 °F                         |
| Relative vapor density at 20°C                  | : 3 – 4                                                    |
| Relative density                                | : 0.65 – 0.73                                              |
| Solubility                                      | : Negligible.                                              |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                                        |
| Auto-ignition temperature                       | : No data available                                        |
| Decomposition temperature                       | : No data available                                        |
| Viscosity, kinematic                            | : No data available                                        |
| Explosion limits                                | : Lower explosion limit: 1.4<br>Upper explosion limit: 7.6 |
| Particle characteristics                        | : No data available                                        |

#### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

Extremely flammable liquid and vapor.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. Direct sunlight. No flames, no sparks. Eliminate all sources of ignition. Incompatible materials.

#### 10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified.

| Toluene                              |                          |
|--------------------------------------|--------------------------|
| LD50 oral rat                        | 5580 mg/kg body weight   |
| LD50 dermal rabbit                   | > 5000 mg/kg body weight |
| LC50 Inhalation - Rat                | 12.5 mg/l                |
| Benzene                              |                          |
| LD50 oral rat                        | > 2000 mg/kg body weight |
| LD50 dermal rat                      | > 5000 mg/kg body weight |
| LC50 Inhalation - Rat                | 43.767 mg/l/4h           |
| Pentane (mixed isomers)              |                          |
| LD50 oral rat                        | > 2000 mg/kg body weight |
| LD50 oral                            | > 2000 mg/kg body weight |
| LC50 Inhalation - Rat                | > 25.3 mg/l air          |
| Hexane Isomers (other than n-Hexane) |                          |
| LD50 oral rat                        | > 2000 mg/kg body weight |
| LC50 Inhalation - Rat (Vapors)       | > 20 mg/l                |
| Heptane (mixed isomers)              |                          |
| LD50 oral rat                        | > 5000 mg/kg             |
| LD50 dermal rabbit                   | > 2000 mg/kg             |
| LC50 Inhalation - Rat                | 103 mg/m <sup>3</sup>    |
| LC50 Inhalation - Rat (Vapors)       | 25132 ppmv               |
| Hexane                               |                          |
| LD50 oral rat                        | 24 ml/kg                 |
| LD50 dermal rabbit                   | > 3350 mg/kg             |
| LC50 Inhalation - Rat (Vapors)       | 259.354 mg/l             |
| Octane                               |                          |
| LD50 oral rat                        | > 5000 mg/kg body weight |
| LD50 dermal rabbit                   | > 2000 mg/kg body weight |
| LC50 Inhalation - Rat                | > 24.88 mg/l air         |
| Butane                               |                          |
| LC50 Inhalation - Rat                | 658 mg/l/4h              |

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| Nonane                |                          |
|-----------------------|--------------------------|
| LD50 oral rat         | > 5000 mg/kg             |
| LD50 dermal rabbit    | > 2000 mg/kg body weight |
| LC50 Inhalation - Rat | 17 mg/l air              |

| Cyclopentane                   |                 |
|--------------------------------|-----------------|
| LD50 oral rat                  | > 5000 mg/kg    |
| LD50 oral                      | 5000 mg/kg      |
| LC50 Inhalation - Rat          | > 25.3 mg/l air |
| LC50 Inhalation - Rat (Vapors) | > 25.3 mg/l     |

| Ethylbenzene                   |                          |
|--------------------------------|--------------------------|
| LD50 oral rat                  | ≈ 3500 mg/kg body weight |
| LD50 dermal rabbit             | 15400                    |
| LC50 Inhalation - Rat (Vapors) | 17.4 mg/l/4h             |

Skin corrosion/irritation : Causes skin irritation.

| Nonane                            |                                                |
|-----------------------------------|------------------------------------------------|
| Skin corrosion/irritation, rabbit | Irritating to rabbits on cutaneous application |

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

| Toluene    |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |

| Benzene                                        |                            |
|------------------------------------------------|----------------------------|
| LOAEC, Inhalation, mouse                       | 960 mg/m <sup>3</sup>      |
| LOAEL, Oral, rat                               | 25 mg/kg bw/day            |
| IARC group                                     | 1 - Carcinogenic to humans |
| National Toxicity Program (NTP) Status         | Known Human Carcinogens    |
| In OSHA Specifically Regulated Carcinogen list | Yes                        |

| Ethylbenzene |                                      |
|--------------|--------------------------------------|
| IARC group   | 2B - Possibly carcinogenic to humans |

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

| Toluene                     |                       |
|-----------------------------|-----------------------|
| LOAEL (animal/female, F0/P) | 520 mg/kg body weight |

STOT-single exposure : May cause drowsiness or dizziness.

# Natural Gasoline

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

|                                             |                                                                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gasoline (natural gas), natural</b>      |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Toluene</b>                              |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Pentane (mixed isomers)</b>              |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Hexane Isomers (other than n-Hexane)</b> |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Heptane (mixed isomers)</b>              |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Hexane</b>                               |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Octane</b>                               |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| <b>Nonane</b>                               |                                                                                                                                                                                                       |
| STOT-single exposure                        | May cause drowsiness or dizziness.                                                                                                                                                                    |
| STOT-repeated exposure                      | : Causes damage to organs (blood, immune system) through prolonged or repeated exposure. May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure. |
| <b>Toluene</b>                              |                                                                                                                                                                                                       |
| LOAEL (oral, rat, 90 days)                  | 1250 mg/kg body weight                                                                                                                                                                                |
| NOAEL (oral, rat, 90 days)                  | 625 mg/kg body weight                                                                                                                                                                                 |
| NOAEC (inhalation, rat, vapor, 90 days)     | 2.355 mg/l air                                                                                                                                                                                        |
| STOT-repeated exposure                      | May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).                                                                                              |
| <b>Benzene</b>                              |                                                                                                                                                                                                       |
| NOAEL (oral, rat, 90 days)                  | 100 mg/kg body weight                                                                                                                                                                                 |
| STOT-repeated exposure                      | Causes damage to organs through prolonged or repeated exposure.                                                                                                                                       |
| <b>Pentane (mixed isomers)</b>              |                                                                                                                                                                                                       |
| NOAEC (inhalation, rat, vapor, 90 days)     | 30 mg/l air                                                                                                                                                                                           |
| <b>Heptane (mixed isomers)</b>              |                                                                                                                                                                                                       |
| LOAEC (inhalation, rat, vapor, 90 days)     | 16.6 mg/l air                                                                                                                                                                                         |
| NOAEC (inhalation, rat, vapor, 90 days)     | 3.3 mg/l air                                                                                                                                                                                          |
| <b>Hexane</b>                               |                                                                                                                                                                                                       |
| STOT-repeated exposure                      | STOT RE 1 C ≥ 5 %                                                                                                                                                                                     |

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| Octane                                         |                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEC (inhalation, rat, vapor, 90 days)        | 24.3 mg/l air                                                                                                                                                                                                                                                                                           |
| Nonane                                         |                                                                                                                                                                                                                                                                                                         |
| NOAEL (oral, rat, 90 days)                     | 100 mg/kg body weight                                                                                                                                                                                                                                                                                   |
| NOAEC (inhalation, rat, vapor, 90 days)        | 24.3 mg/l air                                                                                                                                                                                                                                                                                           |
| NOAEL (subchronic, oral, animal/male, 90 days) | 100 mg/kg body weight                                                                                                                                                                                                                                                                                   |
| Cyclopentane                                   |                                                                                                                                                                                                                                                                                                         |
| NOAEC (inhalation, rat, vapor, 90 days)        | 30 mg/l air                                                                                                                                                                                                                                                                                             |
| Ethylbenzene                                   |                                                                                                                                                                                                                                                                                                         |
| NOAEL (oral, rat, 90 days)                     | 75 mg/kg body weight                                                                                                                                                                                                                                                                                    |
| STOT-repeated exposure                         | May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                                      |
| Aspiration hazard                              | : May be fatal if swallowed and enters airways.                                                                                                                                                                                                                                                         |
| Symptoms/effects after inhalation              | : Aspiration of the product into the lungs may cause pneumonia. May cause drowsiness or dizziness. Causes damage to organs (blood, immune system) through prolonged or repeated exposure. May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure.  |
| Symptoms/effects after skin contact            | : Irritation (itching, redness, blistering).                                                                                                                                                                                                                                                            |
| Symptoms/effects after eye contact             | : May cause eye irritation.                                                                                                                                                                                                                                                                             |
| Symptoms/effects after ingestion               | : May be fatal if swallowed and enters airways.                                                                                                                                                                                                                                                         |
| Chronic symptoms                               | : May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (blood, immune system) through prolonged or repeated exposure. May cause damage to organs (Auditory system, central nervous system) through prolonged or repeated exposure. |

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

|                                                           |                                                   |
|-----------------------------------------------------------|---------------------------------------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life                      |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects |

| Toluene                |           |
|------------------------|-----------|
| LC50 - Fish [1]        | 5.5 mg/l  |
| LOEC (chronic)         | 2.76 mg/l |
| NOEC chronic fish      | 1.39 mg/l |
| NOEC chronic crustacea | 0.74 mg/l |
| Benzene                |           |
| LC50 - Fish [1]        | 5.3 mg/l  |
| EC50 - Crustacea [1]   | 18 mg/l   |
| EC50 72h - Algae [1]   | 32 mg/l   |
| EC50 72h - Algae [2]   | 100 mg/l  |
| ErC50 algae            | 29 mg/l   |

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| Benzene                              |                               |
|--------------------------------------|-------------------------------|
| LOEC (chronic)                       | 1.6 mg/l (32 days, lethality) |
| NOEC chronic fish                    | 0.8 mg/l                      |
| Pentane (mixed isomers)              |                               |
| EC50 - Crustacea [1]                 | 2.3 mg/l                      |
| NOEC chronic algae                   | 2.04 mg/l                     |
| Hexane Isomers (other than n-Hexane) |                               |
| LC50 - Fish [1]                      | 4.656 mg/l                    |
| EC50 96h - Algae [1]                 | 3.635 mg/l                    |
| Heptane (mixed isomers)              |                               |
| LC50 - Fish [1]                      | 5.738 mg/l                    |
| EC50 - Crustacea [1]                 | 0.1 mg/l                      |
| LOEC (chronic)                       | 0.32 mg/l                     |
| NOEC (chronic)                       | 0.17 mg/l                     |
| Hexane                               |                               |
| LC50 - Fish [1]                      | > 1 mg/l                      |
| EC50 - Crustacea [1]                 | 3.9 mg/l                      |
| Octane                               |                               |
| EC50 - Crustacea [1]                 | 0.3 mg/l                      |
| LOEC (chronic)                       | 0.32 mg/l                     |
| NOEC (chronic)                       | 0.17 mg/l                     |
| Nonane                               |                               |
| EC50 - Crustacea [1]                 | 0.2 mg/l                      |
| LOEC (chronic)                       | 0.32 mg/l                     |
| NOEC (chronic)                       | 0.17 mg/l                     |
| Cyclopentane                         |                               |
| LC50 - Fish [1]                      | 4.26 mg/l                     |
| EC50 - Crustacea [1]                 | 10.5 mg/l                     |
| EC50 96h - Algae [1]                 | 3.415 mg/l                    |
| Ethylbenzene                         |                               |
| LC50 - Fish [1]                      | 5.1 mg/l                      |
| EC50 72h - Algae [1]                 | 5.4 mg/l                      |
| EC50 72h - Algae [2]                 | 4.9 mg/l                      |
| EC50 96h - Algae [1]                 | 3.6 mg/l                      |
| EC50 96h - Algae [2]                 | 7.7 mg/l                      |

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| Ethylbenzene   |           |
|----------------|-----------|
| LOEC (chronic) | 1.7 mg/l  |
| NOEC (chronic) | 0.96 mg/l |

### 12.2. Persistence and degradability

| Natural Gasoline              |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| Gasoline (natural gas), natural |                        |
|---------------------------------|------------------------|
| Persistence and degradability   | Not rapidly degradable |

| Toluene                       |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| Benzene                       |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Pentane (mixed isomers)       |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| Hexane Isomers (other than n-Hexane) |                        |
|--------------------------------------|------------------------|
| Persistence and degradability        | Not rapidly degradable |

| Heptane (mixed isomers)       |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| Hexane                        |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| Octane                        |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Butane                        |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Nonane                        |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Cyclopentane                  |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |

| Ethylbenzene                  |                                            |
|-------------------------------|--------------------------------------------|
| Persistence and degradability | 79 % biodegradation Readily biodegradable. |

### 12.3. Bioaccumulative potential

| Hexane Isomers (other than n-Hexane)            |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 3.21 |

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According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| Heptane (mixed isomers)                         |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 4.66 |
| Hexane                                          |      |
| Partition coefficient n-octanol/water (Log Pow) | 3.9  |
| Cyclopentane                                    |      |
| Partition coefficient n-octanol/water (Log Pow) | 3    |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified  
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations. Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.  
Additional information : Flammable vapors may accumulate in the container. Do not re-use empty containers.  
Ecological waste information : Avoid release to the environment.  
List of Hazardous Wastes Codes : U.S. - RCRA (Resource Conservation Recovery Act) - D Waste- Characteristic Waste Codes. D001: IGNITABLE WASTE.

## SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

| DOT                                    | IMDG                                                        | IATA     |
|----------------------------------------|-------------------------------------------------------------|----------|
| 14.1. UN number                        |                                                             |          |
| UN1203                                 | 1203                                                        | 1203     |
| 14.2. Proper Shipping Name             |                                                             |          |
| Gasoline                               | GASOLINE                                                    | Gasoline |
| 14.3. Transport hazard class(es)       |                                                             |          |
| 3                                      | 3                                                           | 3        |
| 14.4. Packing group                    |                                                             |          |
| II                                     | II                                                          | II       |
| 14.5. Environmental hazards            |                                                             |          |
|                                        | Dangerous for the environment: Yes<br>Marine pollutant: Yes |          |
| No supplementary information available |                                                             |          |

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN-No. (DOT)                                                     | : UN1203                                                                                                                                                                                                                                                                                                                                                          |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150                                                                                                                                                                                                                                                                                                                                                             |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 202                                                                                                                                                                                                                                                                                                                                                             |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242                                                                                                                                                                                                                                                                                                                                                             |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5 L                                                                                                                                                                                                                                                                                                                                                             |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 60 L                                                                                                                                                                                                                                                                                                                                                            |
| DOT Vessel Stowage Location                                      | : E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded. |

#### IMDG

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| Special provision (IMDG)           | : 243                                                                 |
| Limited quantities (IMDG)          | : 1 L                                                                 |
| Excepted quantities (IMDG)         | : E2                                                                  |
| Packing instructions (IMDG)        | : P001                                                                |
| IBC packing instructions (IMDG)    | : IBC02                                                               |
| Tank instructions (IMDG)           | : T4                                                                  |
| Tank special provisions (IMDG)     | : TP1                                                                 |
| EmS-No. (Fire)                     | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS     |
| EmS-No. (Spillage)                 | : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER |
| Stowage category (IMDG)            | : E                                                                   |
| Properties and observations (IMDG) | : Immiscible with water.                                              |

#### IATA

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L   |
| PCA packing instructions (IATA)              | : 353  |
| PCA max net quantity (IATA)                  | : 5L   |
| CAO packing instructions (IATA)              | : 364  |
| CAO max net quantity (IATA)                  | : 60L  |
| ERG code (IATA)                              | : 3H   |

## SECTION 15 Regulatory information

### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

|        |                  |        |
|--------|------------------|--------|
| Nonane | CAS-No. 111-84-2 | ≤ 2.5% |
|--------|------------------|--------|

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|         |                  |      |
|---------|------------------|------|
| Toluene | CAS-No. 108-88-3 | ≤ 2% |
|---------|------------------|------|

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

|              |                  |          |
|--------------|------------------|----------|
| Benzene      | CAS-No. 71-43-2  | 0.1 – 2% |
| Hexane       | CAS-No. 110-54-3 | 6 – 10%  |
| Ethylbenzene | CAS-No. 100-41-4 | 0.15%    |

### Toluene (108-88-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

|           |         |
|-----------|---------|
| CERCLA RQ | 1000 lb |
|-----------|---------|

### Benzene (71-43-2)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

|           |       |
|-----------|-------|
| CERCLA RQ | 10 lb |
|-----------|-------|

### Hexane (110-54-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

|           |         |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

### Ethylbenzene (100-41-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

|           |         |
|-----------|---------|
| CERCLA RQ | 1000 lb |
|-----------|---------|

## 15.2. International regulations

### CANADA

#### Gasoline (natural gas), natural (68425-31-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Benzene (71-43-2)

Listed on the Canadian DSL (Domestic Substances List)

#### Pentane (mixed isomers) (78-78-4)

Listed on the Canadian DSL (Domestic Substances List)

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### Hexane Isomers (other than n-Hexane) (107-83-5)

Listed on the Canadian DSL (Domestic Substances List)

### Heptane (mixed isomers) (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

### Hexane (110-54-3)

Listed on the Canadian DSL (Domestic Substances List)

### Octane (111-65-9)

Listed on the Canadian DSL (Domestic Substances List)

### Butane (106-97-8)

Listed on the Canadian DSL (Domestic Substances List)

### Nonane (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

### Cyclopentane (287-92-3)

Listed on the Canadian DSL (Domestic Substances List)

### Ethylbenzene (100-41-4)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### Toluene (108-88-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens  
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

#### Benzene (71-43-2)

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens  
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

#### Pentane (mixed isomers) (78-78-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### Hexane Isomers (other than n-Hexane) (107-83-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Heptane (mixed isomers) (142-82-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Hexane (110-54-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

### Octane (111-65-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Butane (106-97-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Nonane (111-84-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Cyclopentane (287-92-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens

Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

## 15.3. State regulations



### WARNING:

This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Component                                   | State or local regulations                                                                                                                                                                                            |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gasoline (natural gas), natural(68425-31-0) | U.S. - Pennsylvania - RTK (Right to Know) List                                                                                                                                                                        |
| Toluene(108-88-3)                           | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Benzene(71-43-2)                            | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| Component                                      | State or local regulations                                                                                                                                                                                            |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pentane (mixed isomers)(78-78-4)               | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Hexane Isomers (other than n-Hexane)(107-83-5) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List                                                                 |
| Heptane (mixed isomers)(142-82-5)              | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Hexane(110-54-3)                               | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Octane(111-65-9)                               | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Butane(106-97-8)                               | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Nonane(111-84-2)                               | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Cyclopentane(287-92-3)                         | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Ethylbenzene(100-41-4)                         | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |

### SECTION 16 Other information

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 7/13/2026

| Full text of hazard classes and H-statements |                                                    |
|----------------------------------------------|----------------------------------------------------|
| H220                                         | Extremely flammable gas                            |
| H224                                         | Extremely flammable liquid and vapor               |
| H225                                         | Highly flammable liquid and vapor                  |
| H226                                         | Flammable liquid and vapor                         |
| H280                                         | Contains gas under pressure; may explode if heated |
| H304                                         | May be fatal if swallowed and enters airways       |
| H315                                         | Causes skin irritation                             |
| H319                                         | Causes serious eye irritation                      |
| H332                                         | Harmful if inhaled                                 |
| H336                                         | May cause drowsiness or dizziness                  |

# Natural Gasoline

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| Full text of hazard classes and H-statements |                                                                   |
|----------------------------------------------|-------------------------------------------------------------------|
| H340                                         | May cause genetic defects.                                        |
| H350                                         | May cause cancer.                                                 |
| H351                                         | Suspected of causing cancer.                                      |
| H361                                         | Suspected of damaging fertility or the unborn child               |
| H372                                         | Causes damage to organs through prolonged or repeated exposure    |
| H373                                         | May cause damage to organs through prolonged or repeated exposure |
| H400                                         | Very toxic to aquatic life                                        |
| H401                                         | Toxic to aquatic life                                             |
| H410                                         | Very toxic to aquatic life with long lasting effects              |
| H411                                         | Toxic to aquatic life with long lasting effects                   |
| SIAS                                         | May displace oxygen and cause rapid suffocation                   |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.