

# AL-81

Version number: 1.0

Date of compilation: 2025-06-19

## 1 Identification

### 1.1 Product identifier

Trade name **AL-81**  
Alternative name(s) Foaming Polish/Protectant - Blue - Cherry scent

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses polish

### 1.3 Details of the supplier of the safety data sheet

Transchem Inc.  
1225 Franklin Blvd.  
Cambridge Ontario N1R 7E5  
Canada

Telephone: +1.800.265.9100  
e-mail: info@transchem.com  
Website: https://transchem.com/

e-mail (competent person) kberzitis@transchem.com (Karl Berzitis)

### 1.4 Emergency telephone number

Emergency information service INFOTRAC 1-800-535-5053, 24 Hours

## 2 Hazard identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| 3.3     | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |

For full text of abbreviations: see SECTION 16.

### 2.2 Label elements

Labeling

- Signal word danger

- Pictograms

GHS05



- Hazard statements

H318 Causes serious eye damage.

- Precautionary statements

P280 Wear eye protection or face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

### 2.3 Other hazards

Results of PBT and vPvB assessment

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Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

## Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## 3 Composition/ Information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

| Name of substance                                                                                      | Other names or synonyms     | Identifier        | Wt%     | Classification acc. to GHS                                        |
|--------------------------------------------------------------------------------------------------------|-----------------------------|-------------------|---------|-------------------------------------------------------------------|
| Amines, C10-16-alkyldimethyl-, N-oxides                                                                | Lauryl Dimethyl Amine Oxide | CAS No 70592-80-2 | 1 – < 5 | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318  |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Cocamidopropyl Betaine      | CAS No 61789-40-0 | 1 – < 5 | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319                       |
| benzaldehyde                                                                                           | Benzaldehyde                | CAS No 100-52-7   | 1 – < 5 | Flam. Liq. 4 / H227<br>Acute Tox. 4 / H302<br>Acute Tox. 3 / H331 |

## Remarks

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret. For full text of abbreviations: see SECTION 16.

## 4 First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Impairment of vision. Production of tissue damage in the eye. Conjunctivitis (pink eye).

### 4.3 Indication of any immediate medical attention and special treatment needed

Rinse immediately carefully and thoroughly with eye shower or water. Treat symptomatically.

## 5 Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

## 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Chemical protective clothing, Eye and face protection, Wear self-contained breathing apparatus

## 6 Accidental release measures

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

For non-emergency personnel

Remove persons to safety. Prevent skin contact. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Set up barriers, Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

- Incompatible substances or mixtures

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Oxidizers

Control of the effects

Protect against external exposure, such as frost

- General rule

Keep out of reach of children. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep away from incompatible materials.

## 7.3 Specific end use(s)

See section 16 for a general overview.

## 8 Exposure controls/ Personal protection

### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |               |          |              |           |             |            |              |                 |                   |          |                |
|----------------------------------------------------------------|---------------|----------|--------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|----------------|
| Country                                                        | Name of agent | CAS No   | Identifier   | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source         |
| CA                                                             | benzaldehyde  | 100-52-7 | OEL (ON)     |           |             | 4          | 17           |                 |                   |          | Regulation 833 |
| CA                                                             | benzaldehyde  | 100-52-7 | OEL (ON-MoL) |           |             | 4          | 17           |                 |                   |          | MoL            |

#### Notation

|           |                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur                                                                                                     |
| STEL      | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)                   |
| TWA       | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |

| Relevant DNELs of components                                                                           |            |          |                   |                                    |                   |                            |
|--------------------------------------------------------------------------------------------------------|------------|----------|-------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                                                                                      | CAS No     | Endpoint | Threshold level   | Protection goal, route of exposure | Used in           | Exposure time              |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | DNEL     | 8.22 mg/m³        | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | DNEL     | 2.33 mg/kg bw/day | human, dermal                      | worker (industry) | chronic - systemic effects |
| benzaldehyde                                                                                           | 100-52-7   | DNEL     | 9.8 mg/m³         | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| benzaldehyde                                                                                           | 100-52-7   | DNEL     | 9.8 mg/m³         | human, inhalatory                  | worker (industry) | chronic - local effects    |
| benzaldehyde                                                                                           | 100-52-7   | DNEL     | 1.14 mg/kg bw/day | human, dermal                      | worker (industry) | chronic - systemic effects |

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| Relevant PNECs of components                                                                           |            |          |                 |                       |                              |                              |
|--------------------------------------------------------------------------------------------------------|------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                                                                                      | CAS No     | Endpoint | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | PNEC     | 3.2 µg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | PNEC     | 0.32 µg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | PNEC     | 300 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | PNEC     | 0.219 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | PNEC     | 21.9 µg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | PNEC     | 41.9 µg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| benzaldehyde                                                                                           | 100-52-7   | PNEC     | 0 mg/l          | aquatic organisms     | freshwater                   | short-term (single instance) |
| benzaldehyde                                                                                           | 100-52-7   | PNEC     | 0 mg/l          | aquatic organisms     | marine water                 | short-term (single instance) |
| benzaldehyde                                                                                           | 100-52-7   | PNEC     | 7.59 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| benzaldehyde                                                                                           | 100-52-7   | PNEC     | 0.004 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| benzaldehyde                                                                                           | 100-52-7   | PNEC     | 0 mg/kg         | aquatic organisms     | marine sediment              | short-term (single instance) |
| benzaldehyde                                                                                           | 100-52-7   | PNEC     | 0.001 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. Use protective eyewear to guard against splash of liquids.

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## Skin protection

### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

## Body protection

Protective clothing against liquid chemicals.

## Respiratory protection

Full face mask/half mask/quarter mask (EN 136/140). Type : A (against organic gases and vapors with a boiling point of > 65 °C, color code: Brown).

## Environmental exposure controls

Avoid release to the environment. Keep away from drains, surface and ground water.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                          |                    |
|----------------------------------------------------------|--------------------|
| Physical state                                           | liquid             |
| Color                                                    | opaque - dark blue |
| Odor                                                     | cherry             |
| Odor threshold                                           | no data available  |
| Melting point/freezing point                             | not determined     |
| Boiling point or initial boiling point and boiling range | not determined     |
| Evaporation rate                                         | not determined     |
| Flammability                                             | non-combustible    |
| Lower and upper explosion limit                          | not determined     |
| Flash point                                              | not determined     |
| Auto-ignition temperature                                | not determined     |
| Decomposition temperature                                | not relevant       |
| pH (value)                                               | 7 – 9 (23 °C)      |
| Kinematic viscosity                                      | not determined     |
| Solubility(ies)                                          | not determined     |

## Partition coefficient

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

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|                |                |
|----------------|----------------|
| Vapor pressure | not determined |
|----------------|----------------|

## Density and/or relative density

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Density                 | not determined                                |
| Relative vapour density | information on this property is not available |
| Relative density        | 1.005 at 23 °C (water = 1)                    |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

## 9.2 Other information

|                                                    |                                                                |
|----------------------------------------------------|----------------------------------------------------------------|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards):<br>not relevant |
| Other safety characteristics                       | there is no additional information                             |

## 10 Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions. Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## 11 Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

##### Acute toxicity

Shall not be classified as acutely toxic.

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| Acute toxicity estimate (ATE) of components |            |                    |             |
|---------------------------------------------|------------|--------------------|-------------|
| Name of substance                           | CAS No     | Exposure route     | ATE         |
| Amines, C10-16-alkyldimethyl, N-oxides      | 70592-80-2 | oral               | >600 mg/kg  |
| benzaldehyde                                | 100-52-7   | oral               | 1,430 mg/kg |
| benzaldehyde                                | 100-52-7   | inhalation: vapour | 5 mg/l/4h   |

| Acute toxicity of components                                                                           |            |                    |          |              |         |
|--------------------------------------------------------------------------------------------------------|------------|--------------------|----------|--------------|---------|
| Name of substance                                                                                      | CAS No     | Exposure route     | Endpoint | Value        | Species |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | oral               | LD50     | >5,000 mg/kg | rat     |
| Amines, C10-16-alkyldimethyl, N-oxides                                                                 | 70592-80-2 | oral               | LD50     | >600 mg/kg   | rat     |
| Amines, C10-16-alkyldimethyl, N-oxides                                                                 | 70592-80-2 | oral               | LD50     | >520 mg/kg   | rabbit  |
| benzaldehyde                                                                                           | 100-52-7   | oral               | LD50     | 1,430 mg/kg  | rat     |
| benzaldehyde                                                                                           | 100-52-7   | inhalation: vapour | LC50     | 5 mg/l/4h    | rat     |
| benzaldehyde                                                                                           | 100-52-7   | dermal             | LD50     | >2,000 mg/kg | rabbit  |

## Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

Causes serious eye damage.

## Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

## Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

## Carcinogenicity

Shall not be classified as carcinogenic.

## Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## Information on likely routes of exposure

If on skin, If inhaled, If in eyes

## Symptoms related to the physical, chemical and toxicological characteristics

### If swallowed:

Diarrhoea, Vomiting, Abdominal pain

### If in eyes:

Causes tears, Production of tissue damage in the eye, Conjunctivitis (pink eye), Risk of blindness

### If inhaled:

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Cough, Headache

## 12 Ecological information

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components                                                                 |            |          |                |                       |               |
|--------------------------------------------------------------------------------------------------------|------------|----------|----------------|-----------------------|---------------|
| Name of substance                                                                                      | CAS No     | Endpoint | Value          | Species               | Exposure time |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | LC50     | 2 mg/l         | fish                  | 96 h          |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 | EC50     | 6.4 mg/l       | aquatic invertebrates | 48 h          |
| Amines, C10-16-alkyldimethyl, N-oxides                                                                 | 70592-80-2 | LC50     | 1,010 µg/l     | daphnia magna         | 96 h          |
| Amines, C10-16-alkyldimethyl, N-oxides                                                                 | 70592-80-2 | LC50     | 2.6 – 3.5 mg/l | fish                  | 96 h          |
| benzaldehyde                                                                                           | 100-52-7   | LC50     | 12.4 mg/l      | fish                  | 96 h          |
| benzaldehyde                                                                                           | 100-52-7   | EC50     | 19.7 mg/l      | aquatic invertebrates | 48 h          |
| benzaldehyde                                                                                           | 100-52-7   | ErC50    | 33.1 mg/l      | algae                 | 72 h          |

### 12.2 Persistence and degradability

#### Biodegradation

The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

| Degradability of components |          |                           |                  |      |        |        |
|-----------------------------|----------|---------------------------|------------------|------|--------|--------|
| Name of substance           | CAS No   | Process                   | Degradation rate | Time | Method | Source |
| benzaldehyde                | 100-52-7 | DOC removal               | 100 %            | 19 d |        | ECHA   |
| benzaldehyde                | 100-52-7 | oxygen depletion          | >60 %            | 28 d |        | ECHA   |
| benzaldehyde                | 100-52-7 | carbon dioxide generation | 95 %             | 28 d |        | ECHA   |

### 12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components                                                                |            |     |             |          |
|--------------------------------------------------------------------------------------------------------|------------|-----|-------------|----------|
| Name of substance                                                                                      | CAS No     | BCF | Log KOW     | BOD5/COD |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 61789-40-0 |     | -1.28       |          |
| benzaldehyde                                                                                           | 100-52-7   |     | 1.4 (25 °C) |          |

### 12.4 Mobility in soil

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Data are not available.

## 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

## 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## 12.7 Other adverse effects

Data are not available.

## 13 Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## 14 Transport information

|      |                                                |                                                                       |
|------|------------------------------------------------|-----------------------------------------------------------------------|
| 14.1 | UN number                                      | not subject to transport regulations                                  |
| 14.2 | UN proper shipping name                        | not relevant                                                          |
| 14.3 | Transport hazard class(es)                     | none                                                                  |
| 14.4 | Packing group                                  | not assigned                                                          |
| 14.5 | Environmental hazards                          | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user                   | There is no additional information.                                   |
| 14.7 | Transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk.                      |

### Information for each of the UN Model Regulations

#### Transport information - National regulations - Additional information (UN RTDG)

Not subject to transport regulations: UN RTDG

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

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## Superfund Amendment and Reauthorization Act (SARA TITLE III )

- Specific Toxic Chemical Listings (EPCRA Section 313)  
none of the ingredients are listed

## Clean Air Act

- none of the ingredients are listed

## Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No   | Functionality | Authoritative Lists    |
|-------------------|----------|---------------|------------------------|
| benzaldehyde      | 100-52-7 |               | EU Fragrance Allergens |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No   | References | Remarks |
|-------------------|----------|------------|---------|
| benzaldehyde      | 100-52-7 | I          |         |

### Legend

- I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No   | Remarks | Classifications |
|-------------------|----------|---------|-----------------|
| benzaldehyde      | 100-52-7 |         | F2              |

### Legend

- F2 Flammable - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No   | Classification |
|------------------------|----------|----------------|
| BENZALDEHYDE           | 100-52-7 |                |

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No   | References |
|-------------------|----------|------------|
| benzaldehyde      | 100-52-7 | F          |
| benzaldehyde      | 100-52-7 | F          |
| benzaldehyde      | 100-52-7 | F          |

### Legend

- F Flammability (NFPA®)

## California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals |         |             |                      |
|----------------------------------|---------|-------------|----------------------|
| Name acc. to inventory           | CAS No  | Conc.       | Type of the toxicity |
| dichloroacetic acid              | 79-43-6 | 0.00059 wt% | cancer               |
| dichloroacetic acid              | 79-43-6 | 0.00059 wt% | developmental, male  |

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## Industry or sector specific available guidance(s)

### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | /      | none                                                                                                                                                       |
| Health              | 3      | major injury likely unless prompt action is taken and medical treatment is given                                                                           |
| Flammability        | 0      | material that will not burn under typical fire conditions                                                                                                  |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description                                                                      |
|----------------|------------------|----------------------------------------------------------------------------------|
| Flammability   | 0                | material that will not burn under typical fire conditions                        |
| Health         | 3                | material that, under emergency conditions, can cause serious or permanent injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                     |
| Special hazard |                  |                                                                                  |

## National regulations (Canada)

### Domestic Substances List (DSL)/Non-domestic Substances List (NDSL)

all ingredients are listed

### National inventories

| Country | Inventory  | Status                              |
|---------|------------|-------------------------------------|
| CA      | DSL/NDSL   | all ingredients are listed          |
| EU      | REACH Reg. | not all ingredients are listed      |
| US      | TSCA       | all ingredients are listed (ACTIVE) |

#### Legend

DSL/NDSL Domestic Substances List (DSL)/Non-domestic Substances List (NDSL)  
REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## 16 Other information

### Indication of changes (revised safety data sheet)

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## Abbreviations and acronyms

| Abbr.          | Descriptions of used abbreviations                                                                                                                                               |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.     | Acute toxicity                                                                                                                                                                   |
| ATE            | Acute Toxicity Estimate                                                                                                                                                          |
| BCF            | Bioconcentration factor                                                                                                                                                          |
| BOD            | Biochemical Oxygen Demand                                                                                                                                                        |
| CAS            | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| Ceiling-C      | Ceiling value                                                                                                                                                                    |
| COD            | Chemical oxygen demand                                                                                                                                                           |
| DGR            | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| DNEL           | Derived No-Effect Level                                                                                                                                                          |
| EC50           | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED             | Endocrine disruptor                                                                                                                                                              |
| ErC50          | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| Eye Dam.       | Seriously damaging to the eye                                                                                                                                                    |
| Eye Irrit.     | Irritant to the eye                                                                                                                                                              |
| Flam. Liq.     | Flammable liquid                                                                                                                                                                 |
| GHS            | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| IATA           | International Air Transport Association                                                                                                                                          |
| IATA/DGR       | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| ICAO           | International Civil Aviation Organization                                                                                                                                        |
| IMDG           | International Maritime Dangerous Goods Code                                                                                                                                      |
| LC50           | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LD50           | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                 |
| log KOW        | n-Octanol/water                                                                                                                                                                  |
| MoL            | Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833                                                                     |
| NFPA®          | National Fire Protection Association (United States)                                                                                                                             |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition                                                                    |
| PBT            | Persistent, Bioaccumulative and Toxic                                                                                                                                            |
| PNEC           | Predicted No-Effect Concentration                                                                                                                                                |
| ppm            | Parts per million                                                                                                                                                                |
| Regulation 833 | R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents (Ontario)                                                                                            |
| RTECS          | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)                                                                              |
| Skin Corr.     | Corrosive to skin                                                                                                                                                                |
| Skin Irrit.    | Irritant to skin                                                                                                                                                                 |
| STEL           | Short-term exposure limit                                                                                                                                                        |
| TWA            | Time-weighted average                                                                                                                                                            |

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| Abbr.   | Descriptions of used abbreviations                    |
|---------|-------------------------------------------------------|
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB    | Very Persistent and very Bioaccumulative              |

## Key literature references and sources for data

Hazardous Products Regulations (HPR)  
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)  
UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties: The classification is based on tested mixture.  
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                           |
|------|--------------------------------|
| H227 | Combustible liquid.            |
| H302 | Harmful if swallowed.          |
| H315 | Causes skin irritation.        |
| H318 | Causes serious eye damage.     |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled.              |

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.