SPINTA DOT 5.1

Product Code: SP-BR-5.1

Synthetic Brake and Clutch Fluid DOT 5.1

CLP STATUS: CLASSIFIED | Eye Dam. 1 H318 | SIGNAL WORD: DANGER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Mixture. Trade name: SPINTA DOT 5.1. Product code: SP-BR-5.1. UFI: TUT0-90EA-P00G-SWHJ.
1.2 Relevant identified use: Brake fluid.
1.3 Supplier: SPINTA ITALIA S.r.l., Viale C. Battisti 15, 27100 Pavia (PV), Italy. Tel. +39 331 801 9355. SDS contact: info@spinta-lub.it.
1.4 Emergency telephone: CAV Centro Nazionale di Informazione Tossicologica - Pavia, Tel. +39 0382 24444; CAV Azienda Ospedaliera A. Cardarelli - Napoli, Tel. +39 081 5453333.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification: Direct and prolonged contact can cause eye and skin irritation. Hazards reported in Section 2 refer to the finished product and are reduced if used in water emulsion. Regulation (EC) 1272/2008 (CLP): Danger, Eye Dam. 1, Causes serious eye damage. No other adverse physicochemical, health or environmental effects.
2.2 Label elements: Signal word: Danger. Hazard pictogram: GHS05. H318 Causes serious eye damage. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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/doctor/... Special Provisions: None. Contains 2-[2-(2-butossietossi)etossi]etanolo; TEGBE; trietilene glicol monobutil etere. Annex XVII special provisions: None.



2.3 Other hazards: No PBT, vPvB or endocrine-disrupting substances present at concentration >=0.1%. No other hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N.A.
3.2 Mixture: Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Substance	Identification	Classification
>=15% - <20%	2-[2-(2-butossietossi)etossi]etanolo; TEGBE; trietilene glicol monobutil etere	Index 603-183-00-0; CAS 143-22-6; EC 205-592-6	3.2/1 Eye Dam. 1 H318
>=7% - <10%	diethylene glycol	Index 603-140-00-6; CAS 111-46-6; EC 203-872-2	3.1/4/Oral Acute Tox. 4 H302; 3.9/2 STOT RE 2 H373
>=2.5% - <3%	2-(2-butoxyethoxy)ethanol	Index 603-096-00-8; CAS 112-34-5; EC 203-961-6	3.3/2 Eye Irrit. 2 H319
>=2.5% - <3%	2-(2-methoxyethoxy)ethanol	Index 603-107-00-6; CAS 111-77-3; EC 203-906-6	3.7/2 Repr. 2 H361d

SECTION 4: FIRST AID MEASURES

4.1 Skin: High-pressure injection injuries require immediate hospital treatment; prompt surgery and possibly steroid therapy may be required. Remove contaminated clothing immediately; rinse affected body areas with plenty of running water and soap; obtain immediate medical attention; dispose of contaminated clothing safely.
Eyes: Wash immediately with plenty of water for several minutes with eyelids open. Call a doctor if pain/redness persists. Rinse with eyelids open for sufficient time, then consult an ophthalmologist immediately; protect the uninjured eye.
Ingestion: Do not induce vomiting under any circumstances. Obtain a medical examination immediately.
Inhalation: After high exposure to vapours/mist, move casualty to fresh, well-ventilated air; keep warm and at rest; seek medical attention if necessary.
4.2 Symptoms/effects: None.
4.3 Immediate treatment: In case of accident or unwellness seek medical advice immediately and show directions/SDS if possible. For high vapour/mist exposure, move to a well-ventilated place and call for medical attention if necessary.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media: Use class B media: carbon dioxide, dry chemical powder, foam, sand, earth. Water and CO2 are also listed. Avoid water jets; use water only to cool fire-exposed containers.
5.2 Special hazards: Avoid breathing combustion smoke/gases; fire may form chlorine-, sulfur- and nitrogen-containing compounds, unburnt hydrocarbons and other potentially dangerous compounds. Do not inhale explosion/combustion gases. Burning produces heavy smoke.
5.3 Firefighters: Cool heat-exposed containers; use suitable breathing apparatus and full protective suit. Collect contaminated extinguishing water separately; do not discharge to drains. Move undamaged containers if safe.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Avoid skin/eye contact; use appropriate PPE. For relevant spills, especially in confined areas, avoid vapours, ventilate or use respiratory protection. Remove persons to safety; see Sections 7 and 8.
6.2 Environmental precautions: Prevent dispersion to soil, sewers and surface water. Retain contaminated wash water. Inform competent authorities if waterways, soil or drains are affected. Suitable uptake material: organic absorbent / sand.
6.3 Containment/clean-up: Aerosol may ignite under suitable conditions. Contain major spills; absorb small spills with earth, sand or inert absorbent; transfer to suitable impermeable containers; dispose according to current regulations; wash with plenty of water.
6.4 Reference: See Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Safe handling: Avoid direct contact and inhalation of aerosols/vapours; ensure adequate ventilation, especially in confined workplaces. Do not smoke/use open flames; avoid sparks/ignition sources. Keep containers closed. Do not use empty container before cleaning. Before transfer, ensure no incompatible residues. Change contaminated clothing before eating areas; do not eat or drink while working; see Section 8.
7.2 Storage: Keep in original closed containers with leakage control/containment, in a cool, adequately ventilated place away from heat, ignition sources and sunlight. Avoid electrostatic charge. Keep away from food, drink and feed. Incompatible materials: none in particular.
7.3 Specific end uses: None in particular.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: No specific requirements in normal conditions of use. Avoid mist/aerosol generation and diffusion through machine protection and localized ventilation/aspiration. No occupational exposure limit available. DNEL: N.A. PNEC: N.A.
8.2 Eye protection: Wear safety glasses whenever contact is possible (UNI-EN 166). Use close-fitting safety goggles; do not use eye lenses.
Skin/body: Use full suit/apron; change contaminated clothing and wash before reuse. Maintain good personal/work-clothing hygiene (UNI-EN 465/466/467). Use clothing providing comprehensive skin protection, e.g. cotton, rubber, PVC or Viton.
Hands: Wear work gloves resistant to mineral oils/solvents, e.g. neoprene, nitrile or PVC, preferably lined. Replace when worn; use on clean hands. Barrier creams may help for short contacts. Selection depends on use conditions/supplier information (UNI-EN 374). PVC, neoprene or rubber provide comprehensive protection.
Respiratory: If operational/engineering controls are insufficient, use protection for organic vapours and dust/mists (e.g. activated-carbon filter mask). Not needed for normal use.
Thermal hazards / environmental exposure / engineering controls: None.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value / method
Physical state	Liquid
Colour	Yellow
Odour	Characteristic
Melting/freezing point	Not defined / not available
Boiling point/range	Not defined / not available
Flammability	N.A.
Explosion limits	Not defined / not available
Flash point	Not defined / not available
Auto-ignition temperature	Not defined / not available
Decomposition temperature	Not defined / not available
pH	8.0
Kinematic viscosity (9.1)	N.A.
Solubility in water / oil	Not defined / not available
log Kow	Not defined / not available
Vapour pressure	< 2 mbar @ 20°C
Density	1.065 kg/dm³; ASTM D4052
Relative vapour density	Not defined / not available
Particle size	N.A.
9.2 Viscosity	830 cSt @ -40°C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Avoid strong acids, bases and strong oxidizers. Stable under normal conditions.
10.2 Chemical stability: Product is stable at room temperature and under normal conditions.
10.3 Hazardous reactions: None.
10.4 Conditions to avoid: Stable under normal conditions.
10.5 Incompatible materials: None in particular.
10.6 Hazardous decomposition products: None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 CLP hazard classes: Product: acute toxicity - not classified; skin corrosion/irritation - not classified; serious eye damage/irritation - classified Eye Dam. 1 H318; respiratory/skin sensitisation, germ-cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT-repeated exposure and aspiration hazard - not classified; available data do not meet criteria where stated. Main-substance toxicology: N.A.
11.2 Other hazards: No endocrine-disrupting substances present at concentration >=0.1%.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: Adopt good working practices to prevent environmental release. Product not classified for environmental hazards; available data do not meet classification criteria.
12.2 Persistence/degradability: Although not classified hazardous for the environment, source states it is not easily biodegradable. Source also states: sinks if density >1; floats if density <1; easily dispersible in soil and water; easily absorbed/adsorbed in soil; may disperse in air; evaporates with difficulty.
12.3 Bioaccumulation: N.A.
12.4 Mobility in soil: N.A.
12.5 PBT/vPvB: None.
12.6 Endocrine disruption: No endocrine-disrupting substances >=0.1%.
12.7 Other adverse effects: None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment: Send product and containers to approved companies, considering DPR 691 of 23/08/1982 and Part IV of D.Lgs. 152/03-04-2006 and updates. Do not discharge to sewers, tunnels or watercourses. Recover if possible; send to authorised disposal plants or controlled incineration where applicable; comply with local/national rules.

SECTION 14: TRANSPORT INFORMATION

14.1 UN/ID number: Not classified as dangerous under transport regulations.
14.2 Proper shipping name: N.A. 14.3 Transport class: N.A. 14.4 Packing group: N.A.
14.5 Environmental hazards: N.A. 14.6 Special precautions: N.A. 14.7 Maritime bulk transport per IMO: N.A.

SECTION 15: REGULATORY INFORMATION

15.1 Regulations: Dir. 98/24/EC; Dir. 2000/39/EC; Reg. (EC) 1907/2006 REACH; Reg. (EC) 1272/2008 CLP; Reg. (EC) 790/2009 (ATP1) and (EU) 758/2013; Reg. (EU) 2020/878; CLP ATPs 2-16: 286/2011, 618/2012, 487/2013, 944/2013, 605/2014, 2015/1221, 2016/918, 2016/1179, 2017/776, 2018/669, 2019/521, 2018/1480, 2020/217, 2020/1182, 2021/643.
REACH Annex XVII: Product restriction: 3. Substance restrictions: 54, 55, 75.
Other provisions: Directive 2012/18/EU (Seveso III); Reg. (EC) 648/2004 detergents; Dir. 2004/42/EC VOC; D.M. 13 Feb 2003 PPE harmonized laws; D.Lgs. 81/09-04-2008 workplace health/safety; D.M. 14 Jan 2008 occupational disease reporting; D.P.R. 689/26-05-1959 fire-protection-control activities; Directive 98/8/EC biocidal products. Seveso III category: none.
15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: OTHER INFORMATION

Use limitation: Do not use for uses different from those identified; unevaluated risks may result.
Guidance basis: Guidance on preparation of Safety Data Sheets for lubricants, Industrial Group of Lube Companies (GAIL), aispec.federchimica.it.
Full text / hazard classes: H318 Causes serious eye damage. H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H361d Suspected of damaging the unborn child. Acute Tox. 4 - 3.1/4/Oral; Eye Dam. 1 - 3.3/1; Eye Irrit. 2 - 3.3/2; Repr. 2 - 3.7/2; STOT RE 2 - 3.9/2. - Classification procedure for mixture: Eye Dam. 1 H318 - Calculation method.
Regulatory status: Source SDS dated 02/02/2023, version 1. Completely updated in compliance with Regulation 2020/878; document prepared by a competent person who received appropriate training.
Bibliography: ECDIN - Environmental Chemicals Data and Information Network, Joint Research Centre, Commission of the European Communities; SAX's Dangerous Properties of Industrial Materials, 8th Ed., Van Nostrand Reinhold.
Disclaimer: Information is based on the state of knowledge at the source date, refers solely to the product indicated and constitutes no guarantee of particular quality. User must ensure suitability/completeness for intended use. Source SDS cancels and replaces preceding releases.
Abbreviations: ADR European Agreement for road transport of dangerous goods; ATE/ATEmix Acute Toxicity Estimate; CAS Chemical Abstracts Service; CLP Classification, Labeling, Packaging; DNEL Derived No Effect Level; EINECS European Inventory; GefStoffV0 German Hazardous Substances Ordinance; GHS Globally Harmonized System; IATA/IATA-DGR air transport/Dangerous Goods Regulations; ICAO/ICAO-TI International Civil Aviation Organization/Technical Instructions; IMDG maritime dangerous goods; INCI cosmetic ingredients; KSt explosion coefficient; LC50 lethal concentration 50%; LD50 lethal dose 50%; PNEC Predicted No Effect Concentration; RID rail dangerous goods; STEL short-term exposure limit; STOT specific target organ toxicity; TLV threshold limit value; TWA time-weighted average; WGK German Water Hazard Class.

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