SPINTA DOT 4

Product Code: SP-BR-4

Brake and Clutch Fluid DOT 4

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 4. Product code: SP-BR-4. UFI: RXT0-T03R-0000-E83M.
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
>=50% - <55%	2-[2-(2-butossietossi)etossi]etanolo; TEGBE; trietilene glicol monobutil etere	Index 603-183-00-0; CAS 143-22-6; EC 205-592-6	3.3/1 Eye Dam. 1 H318
>=7% - <10%	Estere EB	CAS 71035-05-7; EC 615-244-9	3.1/4/Oral Acute Tox. 4 H302
>=1% - <2.5%	2,2'-ossidietanolo; dietilenglicole	Index 603-140-00-6; CAS 111-46-6; EC 203-872-2	3.1/4/Oral Acute Tox. 4 H302

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 containers 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	7.8
Kinematic viscosity (9.1)	N.A.
Solubility in water / oil	Not defined / not available
log Kow	Not defined / not available
Vapour pressure	Not defined / not available
Density	1.065 kg/dm³, ASTM D4052
Relative vapour density	Not defined / not available
Particle size	N.A.
9.2 Viscosity	1400 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: 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. Acute Tox. 4 - 3.1/4/Oral Acute toxicity (oral), Category 4. Eye Dam. 1 - 3.3/1 Serious eye damage, Category 1. 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; GefStoffVO 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.