SPINTA PROPYLENE GLYCOL CONCENTRATE

Product Code: SP-CS-PG-CONC

Pure antifreeze for solar thermal, food and pharmaceutical systems

CLP STATUS: NOT CLASSIFIED AS DANGEROUS | EUH210 Safety data sheet available on request

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

1.1 Product identifier: Mixture. Trade name: SPINTA PROPYLENE GLYCOL CONCENTRATE. Product code: SP-CS-PG-CONC.
1.2 Relevant identified use: Pure antifreeze for solar thermal, food and pharmaceutical systems.
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 refer to the finished product and are reduced if used in water emulsion. The product is not classified as dangerous according to Regulation (EC) 1272/2008 (CLP). No other hazards.
2.2 Label elements: Not classified as dangerous under CLP. Hazard pictograms: none. Hazard statements: none. Precautionary statements: none. EUH210 Safety data sheet available on request. 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
>=5% - <7%	Inibitore SNA	—	3.2/2 Skin Irrit. 2 H315, 3.3/2 Eye Irrit. 2 H319

SECTION 4: FIRST AID MEASURES

4.1 Skin: High-pressure injection injuries require immediate hospital treatment. Remove contaminated clothing; wash thoroughly with water and soap. Wash affected body areas immediately and dispose of contaminated clothing safely.
Eyes: Rinse immediately with plenty of water for several minutes with eyelids open; seek medical advice.
Ingestion: Do not induce vomiting. Obtain medical examination immediately.
Inhalation: Move to fresh, well-ventilated air, keep warm and at rest; seek medical attention if necessary.
4.2 Symptoms/effects: None.
4.3 Immediate treatment: Fresh air/ventilation after high vapour or mist exposure; 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. CO2 or dry chemical extinguisher. 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.
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 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 release 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 regulation; 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 ventilation. 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. 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: Safety glasses when contact is possible (UNI-EN 166). Not needed for normal use; follow good practice.
Skin/body: Full suit/apron where needed; change contaminated clothing and wash before reuse; good hygiene (UNI-EN 465/466/467). No special precaution for normal use.
Hands: Oil/solvent-resistant gloves such as neoprene, nitrile or PVC, preferably lined; replace when worn. Barrier creams may help for short contacts. UNI-EN 374. Not needed for normal use.
Respiratory: If controls are insufficient, use filter protection for organic vapours and dust/mists (e.g. activated-carbon 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	Colourless
Odour	Characteristic
Melting/freezing point	Not defined / not available
Boiling point/range	180°C; ASTM D1120
Flammability	N.A.
Explosion limits	Not defined / not available
Flash point	115°C; DIN ISO 2592
Auto-ignition temperature	Not defined / not available
Decomposition temperature	Not defined / not available
pH	8.5; ASTM D1287
Kinematic viscosity (9.1)	N.A.
Solubility in water / oil	Soluble / Not defined / not available
log Kow	Not defined / not available
Vapour pressure	Not defined / not available
Density	1.050 kg/dm3; ASTM D4052
Relative vapour density	Not defined / not available
Particle size	N.A.
9.2 Other information	No other relevant information.

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: Acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory/skin sensitisation, germ-cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT-repeated exposure and aspiration hazard are all not classified; available data do not meet classification criteria. 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: Use good working practices to prevent environmental release. Product not classified for environmental hazards; criteria not met.
12.2 Persistence/degradability: Although not classified environmentally hazardous, source states it is not easily biodegradable. Source also states: sinks if density >1; floats if <1; easily dispersible in soil/water, easily absorbed/adsorbed in soil; can disperse in air and 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/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 restrictions: No restriction. Substance restrictions: No restriction.
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 of phrases referred to in Section 3: H315 Causes skin irritation. H319 Causes serious eye irritation. Skin Irrit. 2 - 3.2/2; Eye Irrit. 2 - 3.3/2.
Regulatory status: Source SDS dated 03/02/2023, version 1. Completely updated in compliance with Regulation 2020/878; 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.