SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: IS 510
Trade code: 510000001
UFI: J4FG-XSFV-W71X-DC87

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

Recommended use: Siloxane water-repellent coating

1.3. Details of the supplier of the safety data sheet

Company: FASSA Srl
Via Lazzaris, 3 - 31027 Spresiano (TV) - Italy
Tel. +39 0422 7222
Fax +39 0422 887509

Imported in the UK:
FASSA UK LTD
Ashchurch Business Centre,
Alexandra Way, Ashchurch, Tewkesbury GL20 8TD- UK
Tel. +44 (0) 1684.212272

Responsable: laboratorio.spresiano@fassabortolo.it

1.4. Emergency telephone number

NHS 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3	Flammable liquid and vapour.
STOT SE 3	May cause drowsiness or dizziness.
Asp. Tox. 1	May be fatal if swallowed and enters airways.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word

Danger

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulation.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains:

Hydrocarbons, C9-C11, n-alkanes,
isoalkanes, cyclics, <2% aromatics

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

The product has been classified according to Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances
present in concentration >= 0.1%.

Il prodotto idrolizza con formazione di metanolo (nr. CAS 67-56-1). Il metanolo è classificato sia in relazione ai pericoli fisici che ai pericoli per la salute. La velocità di idrolisi e pertanto anche la rilevanza per la pericolosità del prodotto dipendono fortemente dalle condizioni specifiche.

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: IS 510

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number:
≥ 90%	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC:919-857-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336, EUH066	01-2119463258-33-xxxx
≥0.025 - <0.05 %	methanol	CAS:67-56-1 EC:200-659-6 Index:603-001-00-X	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 Specific Concentration Limits: 3% ≤ C < 10%: STOT SE 2 H371 10% ≤ C < 100%: STOT SE 1 H370 Acute Toxicity Estimate: ATE - Oral: 100mg/kg bw ATE - Dermal: 300mg/kg bw ATE - Inhalation (Vapours): 3mg/l	01-2119433307-44-xxxx

Note: any information in the EC # column starting with number "9" is an EC # Provisional List Number provided by ECHA pending publication of the official European Inventory of Substances. The following substance is identified by the CAS number both in countries not subject to REACH Regulations and in Regulations not yet updated with the new nomenclature of hydrocarbon solvents. Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics: CAS 64742-48-9.

Classifications according to Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediatley and dispose off safely.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

The symptoms and effects are as expected from the hazards as shown in section 2.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO_2, powder extinguisher, foam, water spray.

Extinguishing media which must not be used for safety reasons:

Water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, nitrogen oxides).

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Material suitable for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved with water.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place, away from heat.

Protect against moisture. Keep this product in a dry place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

See chapter 10.5

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

See chapter 1.2

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

	OEL Type	ACGIH		Long Term: 1200 mg/m3 - 197 ppm

methanol

CAS: 67-56-1	OEL Type	ACGIH		Long Term: 200 ppm; Short Term: 250 ppm Notes: Skin, BEI - Headache, eye dam, dizziness, nausea
	OEL Type	EU		Long Term: 260 mg/m3 - 200 ppm Notes: Skin
	OEL Type	MAK	AUSTRIA	Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm
	OEL Type	MAK	GERMANY	Long Term: 130 mg/m3 - 100 ppm; Short Term: 260 mg/m3 - 200 ppm Notes: Skin
	OEL Type	VLEP	BELGIUM	Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm Notes: Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.
	OEL Type	VLEP	FRANCE	Long Term: 260 mg/m3 - 200 ppm
	OEL Type	VLEP	ITALY	Long Term: 260 mg/m3 - 200 ppm Notes: Skin
	OEL Type	VLEP	ROMANIA	Long Term: 260 mg/m3 - 200 ppm
	OEL Type	TLV	CZECHIA	Long Term: 250 mg/m3 - 187.75 ppm; Short Term: 1000 mg/m3 - 751 ppm Notes: Skin
	OEL Type	VLA	SPAIN	Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm Notes: Skin
	OEL Type	ÁK	HUNGARY	Long Term: 260 mg/m3
	OEL Type	MAC	NETHERLANDS	Long Term: 133 mg/m3
	OEL Type	VLE	PORTUGAL	Long Term: 260 mg/m3 - 200 ppm Notes: Skin
	OEL Type	SUVA	SWITZERLAND	Long Term: 260 mg/m3 - 200 ppm; Short Term: 520 mg/m3 - 400 ppm
	OEL Type	WEL	U.K.	Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm
	OEL Type	GVI	CROATIA	Long Term: 260 mg/m3 - 200 ppm Notes: Skin
	OEL Type	AGW	GERMANY	Long Term: 130 mg/m3 - 100 ppm; Short Term: 260 mg/m3 - 200 ppm Notes: Skin
	OEL Type	NDS	POLAND	Long Term: 100 mg/m3; Short Term: 300 mg/m3
	OEL Type	MV	SLOVENIA	Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm Notes: Skin

Predicted No Effect Concentration (PNEC) values

methanol

CAS: 67-56-1	Exposure Route: Marine water; PNEC Limit: 2.08 mg/l
	Exposure Route: Fresh Water; PNEC Limit: 20.8 mg/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 7.7 mg/kg
	Exposure Route: Freshwater sediments; PNEC Limit: 77 mg/kg
	Exposure Route: Soil (agricultural); PNEC Limit: 100 mg/kg

Derived No Effect Level (DNEL) values

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 871 mg/m3; Consumer: 185 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 77 mg/kg; Consumer: 46 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 46 mg/kg

methanol

CAS: 67-56-1

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 8 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 8 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Professional: 40 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 40 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 260 mg/m3; Consumer: 50 mg/m3

8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Eye protection:

Eye glasses with side protection (EN 16321).

Protection for skin:

Personnel should wear anti-static clothing made of natural fibre or high temperature resistant synthetic fibre.

Protection for hands:

There is no material or combination of materials for gloves that can guarantee unlimited resistance to any individual chemical or combination of chemicals.

For prolonged or repeated handling, use chemical resistant gloves.

Suitable materials for safety gloves (EN 374/EN 16523); NBR (Nitril rubber): thickness >= 0.4 mm; permeation time >= 480 min. FKM (Fluorinated rubber): thickness >= 0.4 mm; permeation time >= 480 min

The choice of suitable gloves does not only depend on the material, but also on other quality characteristics that vary from one manufacturer to another and on the manner and times according to which the mixture is used.

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Combination filtering device (EN 14387): mask with filter A-P2.

Environmental exposure controls:

See point 6.2

Hygienic and Technical measures

See section 7.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Liquid

Color: transparent

Odour: of mineral turpentine

Odour threshold: N.D.

Melting point/freezing point: N.D.

Boiling point or initial boiling point and boiling range: N.D.

Flammability: The product is classified Flam. Liq. 3 H226

Lower and upper explosion limit: N.D.

Flash point: 23°C / 60°C (Internal assessment)

Auto-ignition temperature: N.D.

Decomposition temperature: N.D.

pH: N.A. (Not applicable due to nature of the product)
Kinematic viscosity: ≤ 20.5 mm²/s (40 °C)
Density and/or relative density: 0.79 ± 0.01 kg/l (Internal method)
Relative vapour density: N.D.
Vapour pressure: N.D.
Solubility in water: Insoluble
Solubility in oil: No data available
Partition coefficient n-octanol/water (log value): N.A.
Particle characteristics:
Particle size: N.A.

9.2. Other information

Conductivity: N.D.
Explosive properties: N.D.
Oxidizing properties: N.D.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Because of heat or fire the preparation can release carbon oxides and vapours which may be harmful to health.
Keep away from oxidising agents and strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

Keep away from heat sources.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.
See chapter 10.3

10.6. Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.
See chapter 5.2

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on hazard classes as defined in the retained Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: STOT SE 3(H336)
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	The product is classified: Asp. Tox. 1(H304)

Toxicological information on main components of the mixture:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) acute toxicity LD50 Oral Rat > 5000 mg/kg

LD50 Skin Rabbit > 5000 mg/kg

LC50 Inhalation Vapour Rat > 5000 mg/m3

methanol

CAS: 67-56-1 a) acute toxicity ATE - Oral: 100 mg/kg bw

ATE - Dermal: 300 mg/kg bw

ATE - Inhalation (Vapours): 3 mg/l

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

Adopt good working practices, so that the product is not released into the environment.

12.1. Toxicity

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) Aquatic acute toxicity: LL50 Fish > 1000 mg/l 96h

a) Aquatic acute toxicity: EL0 Daphnia 1000 mg/l 48h

a) Aquatic acute toxicity: EL50 Algae > 1000 mg/l 72h

methanol

CAS: 67-56-1 a) Aquatic acute toxicity: LC50 Fish 13500 mg/l 96h

a) Aquatic acute toxicity: EC50 Daphnia > 10000 mg/l 48h

a) Aquatic acute toxicity: EC50 Algae 22000 mg/l 72h

12.2. Persistence and degradability

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Readily biodegradable

methanol

CAS: 67-56-1 Readily biodegradable

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Do not allow it to enter drains or watercourses.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Once the product has expired, it must be disposed of in accordance with current legislation.

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code):

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Directive 2010/75/EU

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 69, 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: P5c	5000	50000

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

On the basis of available data, the product does not contain any SVHC in percentage ≥ 0.1%.

VOC content limit value (Directive 2004/42/EC) Cat. A/h: 750 g/l; COV < 750 g/l

Relevant EU provisions transposed through retained EU legislation:

UK REACH List of restrictions (Annex XVII);

UK REACH Candidate list of substances of very high concern (SVHC) for authorisation;

UK REACK List of substances subject to authorisation (Annex XIV);

Export and import of hazardous chemicals - Prior informed consent (PIC regulation).

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H371	May cause damage to organs.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
3.8/2	STOT SE 2	Specific target organ toxicity — single exposure, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	Evaluation based on the substances contained
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Safety data sheets of raw materials suppliers.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DNEL: Derived No Effect Level.

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IC50: half maximal inhibitory concentration

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

N.D.: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TLV-TWA: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Substance identification
Chemical Name: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
EC number: 919-857-5
Date - Version: 1 Dicembre 2021 - 6.00

USE IN COATINGS PROFESSIONAL USE

SECTION 1 TITLE OF THE EXPOSURE SCENARIO

TITLE
Use in coatings Professional use.

USE DESCRIPTORS
Sectors of use:
SU22
Process categories:
PROC1, PROC10, PROC11, PROC13, PROC14, PROC15, PROC19, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b.
Environmental release categories:
ERC8a, ERC8d
Specific Environmental Release Category:
ESVOC 8.3b.v1

Processes, tasks, activities considered
Consider use in coating (paints, inks, adhesives, etc.) including exposure during use (including receipt of material, storage, preparation and transfer from bulk or semi-bulk, spray, roller, brush application, applied by hand or similar methods and film formation) and equipment cleaning, maintenance and associated laboratory activities.

SECTION 2 OPERATING CONDITIONS AND RISK MANAGEMENT MEASURES

SECTION 2.1 WORKER EXPOSURE CONTROL

Products features
Liquid

Duration, frequency and amount
Covers daily exposure up to 8 hours (unless otherwise defined) [G2].
Covers the substance in the product up to 100% [G13].

Additional operating conditions regarding worker exposure
It is assumed that good basic industrial hygiene practices are applied.
Assumes use at not more than 20°C above ambient temperature [G15].

Contribution to the scenario / specific risk control measures and operating conditions

General measures (Risk of Inhalation)
Hazard statement H304 (May be fatal if swallowed and enters airways) refers to the possibility of inhalation, a non-quantifiable risk determined by the physical-chemical properties (i.e. viscosity) that may arise during ingestion and in the event of vomiting after ingestion. A DNEL cannot be determined. Risks relating to the physical-chemical hazards of the substances can be controlled by adopting risk management measures. For substances classified as H304, the measures listed below must be adopted to control the risk of inhalation.
Do not swallow. If swallowed then seek immediate medical assistance. DO NOT induce vomiting.

General measures (flammable liquid)
Risks relating to the physical-chemical hazards of the substances, such as flammability or explosiveness, can be controlled by adopting risk management measures in the workplace. It is recommended to refer to ATEX directive version 2014/34/EU. Based on the implementation of a series of storage risk management measures for the identified uses, the risks can be considered as being controlled to an acceptable level.
Use in closed systems. Avoid sources of ignition - No smoking. Handle in a well-ventilated area to prevent the formation of explosive atmospheres. Use protective equipment and systems approved for flammable substances.
Limit the speed in the lines while pumping to avoid the generation of electrostatic discharges. Ground the container and the receiving device. Use non-sparking tools. Follow relevant EU/national regulations. Refer to the SDS for additional recommendations.

General exposure (closed systems) PROC1
No specific measures identified.

Filling/preparation of equipment from drums or vessels Use in closed systems PROC2
No specific measures identified.

General exposure (closed systems) Use in closed systems PROC2
No specific measures identified.

Preparation of material for use Use in closed batch processes PROC3
No specific measures identified.

Film formation - air dry Exterior PROC4
No specific measures identified.

Film formation - air dry Internal PROC4
No specific measures identified.

Preparation of material for use Internal PROC5
No specific measures identified.

Preparation of material for use Exterior PROC5
No specific measures identified.

Material transfers Internal PROC8a
No specific measures identified.

Material transfers Transfer of drums/quantities Dedicated plant PROC8b
No specific measures identified.

Roller, spray and flow application Internal PROC10
No specific measures identified.

Roller, spray and flow application Exterior PROC10
No specific measures identified.

Manual Spray Internal PROC11
Wear suitable gloves, tested according to EN347.
Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release,.

Manual Spray Exterior PROC11
Wear suitable gloves, tested according to EN347.
Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release,.

Immersion and pouring Internal PROC13
No specific measures identified.

Immersion and pouring Exterior PROC13
No specific measures identified.

Laboratory activities PROC15
No specific measures identified.

Manual Application - Finger Paints, Chalks, Adhesives Internal PROC19
No specific measures identified.

Manual Application - Finger Paints, Chalks, Adhesives Exterior PROC19
No specific measures identified.

Equipment cleaning and maintenance PROC8a
No specific measures identified.

Storage PROC1
Store substance in a closed system.

SECTION 2.2 ENVIRONMENTAL EXPOSURE CONTROL

Products features
Not applicable

Duration, frequency and amount
Not applicable

Environmental factors do not influence risk management
Not applicable.

Additional operating conditions relating to environmental exposure
No environmental exposure verification has been submitted

Technical conditions and process-level (source) measures to prevent releases
Not applicable

Local technical conditions and measures to reduce and limit discharges, air emissions and soil releases
Not applicable

Organisational measures to avoid/limit release from a site
Not applicable

Conditions and measures for the municipal sewage treatment plant
Not applicable

Conditions and measures for external treatment of waste
Not applicable

Conditions and measures for external recovery of waste
Not applicable

SECTION 3 EXPOSURE ESTIMATES

3.1 Health
The ECETOC TRA model has been used to assess worker exposure, unless otherwise indicated [G21].

3.2 Environment
Not applicable.

SECTION 4 GUIDE FOR CHECKING COMPLIANCE WITH THE EXPOSURE SCENARIO

4.1 Health
The available hazard data do not allow a DNEL value to be derived for dermal effects.
The available risk data do not indicate the need to establish a DNEL for other health effects [G36].
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented [G22].
Risk management measures are based on the qualitative determination of the risk.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

4.2 Environment
Not applicable.

USE IN WASHING PRODUCTS PROFESSIONAL USE

SECTION 1 TITLE OF THE EXPOSURE SCENARIO

TITLE

Use in washing products Professional use.

USE DESCRIPTORS

Sectors of use:
SU22
Process categories:
PROC1, PROC10, PROC11, PROC13, PROC19, PROC2, PROC3, PROC4, PROC8a, PROC8b.
Environmental release categories:
ERC8a, ERC8d
Specific Environmental Release Category:
ESVOC 8.3b.v1

Processes, tasks, activities considered

Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping and wiping, automated or by hand).

SECTION 2 OPERATING CONDITIONS AND RISK MANAGEMENT MEASURES

SECTION 2.1 WORKER EXPOSURE CONTROL

Products features

Liquid

Duration, frequency and amount

Covers daily exposure up to 8 hours (unless otherwise defined) [G2].
Covers the substance in the product up to 100% [G13].

Additional operating conditions regarding worker exposure

It is assumed that good basic industrial hygiene practices are applied.
Assumes use at not more than 20°C above ambient temperature [G15].

Contribution to the scenario / specific risk control measures and operating conditions

General measures (Risk of Inhalation)

Hazard statement H304 (May be fatal if swallowed and enters airways) refers to the possibility of inhalation, a non-quantifiable risk determined by the physical-chemical properties (i.e. viscosity) that may arise during ingestion and in the event of vomiting after ingestion. A DNEL cannot be determined. Risks relating to the physical-chemical hazards of the substances can be controlled by adopting risk management measures. For substances classified as H304, the measures listed below must be adopted to control the risk of inhalation.
Do not swallow. If swallowed then seek immediate medical assistance. DO NOT induce vomiting.

General measures (flammable liquid)

Risks relating to the physical-chemical hazards of the substances, such as flammability or explosiveness, can be controlled by adopting risk management measures in the workplace. It is recommended to refer to ATEX directive version 2014/34/EU. Based on the implementation of a series of storage risk management measures for the identified uses, the risks can be considered as being controlled to an acceptable level.
Use in closed systems. Avoid sources of ignition - No smoking. Handle in a well-ventilated area to prevent the formation of explosive atmospheres. Use protective equipment and systems approved for flammable substances.
Limit the speed in the lines while pumping to avoid the generation of electrostatic discharges. Ground the container and the receiving device. Use non-sparking tools. Follow relevant EU/national regulations. Refer to the SDS for additional recommendations.

Filling/preparation of equipment from drums or vessels No product-specific installation PROC8a

No specific measures identified.

Filling/preparation of equipment from drums or vessels Dedicated plant PROC8b

No specific measures identified.

Automated process with (semi) closed systems Use in closed systems PROC2
No specific measures identified.

Automated process with (semi) closed systems Use in closed systems Transfer of drums/quantities PROC2
No specific measures identified.

Automated process with (semi) closed systems Transfer of drums/quantities Use in closed systems PROC3
No specific measures identified.

Semi automated process. (e.g.: semi automatic application of floor care and maintenance products) PROC4
No specific measures identified.

Manual surface cleaning by dipping or pouring PROC13
No specific measures identified.

Roller, spray and flow application Internal PROC10
No specific measures identified.

Cleaning with low pressure washers Roller and brush application Do not spray PROC10
No specific measures identified.

Cleaning with high pressure washers Spray Internal PROC11
Wear suitable gloves, tested according to EN347.
Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release.

Cleaning with high pressure washers Spray Exterior PROC11
Wear suitable gloves, tested according to EN347.
Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release.

Manual surface cleaning Spray PROC10
No specific measures identified.

Ad hoc manual application by fogging, dipping etc. Roller and brush application PROC10
No specific measures identified.

Use of cleaning products in closed systems Exterior PROC4
No specific measures identified.

GES04.02.14a PROC19 [EXXSOL D40] PROC19
No specific measures identified.

Storage PROC1
Store substance in a closed system.

SECTION 2.2 ENVIRONMENTAL EXPOSURE CONTROL

Products features
Not applicable

Duration, frequency and amount
Not applicable

Environmental factors do not influence risk management
Not applicable.

Additional operating conditions relating to environmental exposure
No environmental exposure verification has been submitted

Technical conditions and process-level (source) measures to prevent releases
Not applicable

Local technical conditions and measures to reduce and limit discharges, air emissions and soil releases
Not applicable

Organisational measures to avoid/limit release from a site
Not applicable

Conditions and measures for the municipal sewage treatment plant
Not applicable

Conditions and measures for external treatment of waste
Not applicable

Conditions and measures for external recovery of waste
Not applicable

SECTION 3 EXPOSURE ESTIMATES

3.1 Health
The ECETOC TRA model has been used to assess worker exposure, unless otherwise indicated [G21].

3.2 Environment
Not applicable.

SECTION 4 GUIDE FOR CHECKING COMPLIANCE WITH THE EXPOSURE SCENARIO

4.1 Health
The available hazard data do not allow a DNEL value to be derived for dermal effects.
The available risk data do not indicate the need to establish a DNEL for other health effects [G36].
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented [G22].
Risk management measures are based on the qualitative determination of the risk.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

4.2 Environment
Not applicable.