FABER CHIMICA S.R.L.

PFP2 - P 147

Revision n. 8.1 Dated 07/03/2022 Printed on 07/03/2022 Page n. 1/17

Replaced revision:8.0 (Dated: 13/10/2021)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: PFP2
Product name P 147
Chemical name and synonym P 147

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

Intended use COLOR ENHANCING IMPREGNATOR

1.3. Details of the supplier of the safety data sheet

Name FABER CHIMICA S.R.L.

Full address Via Ceresani 10

District and Country 60044 Campo D'Olmo - Fabriano (ANCONA)

ITALIA

Tel. 0732627178 Fax 073222395

e-mail address of the competent person

responsible for the Safety Data Sheet quality@fabersurfacecare.com

1.4. Emergency telephone number

For urgent inquiries refer to Belgium

Centre Antipoisons

c/o Hôpital Militaire Reine Astrid, Rue Bruyn 1, 1120 Bruxelles, Belgium

Phone+32022649636

E-mail info@poisoncentre.be

Croatia

Croatian Institute of Public Health, Division for Toxicology

Borongajska 83g, 10000 Zagreb, Croatia

Phone+38514686910 E-mail toksikologija@hzjz.hr

Denmark

Danish Environmental Protection Agency Haraldsgade 53, 2100 København Ø, Denmark

Phone+45 72 54 40 00 E-mail mst@mst.dk Estonia Health Board

Paldiski road 81,10617 Tallinn, Estonia

Phone+372 794 3500

E-mail clp @ terviseamet.ee, info @ terviseamet.ee

Iceland

Poisons Information Center - Icelandic University Hospital

Fossvogur, Reykjavík, Iceland Phone+354 543 22 22 E-mail eitur@landspitali.is

Ireland

National Poisons Information Centre

Beaumont Hospital, Beaumont, Dublin 9., Ireland

E-mail chemicalsinfo @ beaumont.ie

Latvia

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State Ltd "Latvian Environment, Geology and Meteorology Centre"

Maskavas Street 165, Riga, LV-1019, Latvia

Phone +371 67032600

E-mail lvgmc@lvgmc.lv

Lithuania

Environmental Protection Agency

Juozapavicius st. 9, LT-09311 Vilnius, Lithuania

Phone +370 70662008 E-mail aaa@aaa.am.lt

Malta

Malta Competition and Consumer Affairs Authority (MCCAA)

Mizzi House, National Road, Blata I-Bajda HMR9010, Malta

Phone +356 2395 2000

E-mail info@mccaa.org.mt

Norway

Norwegian Environment Agency

Postboks 5672 Torgarden, 7485 Trondheim, Norway

Phone+4573580500

E-mail produktregisteret@miljodir.no

Portugal

Centro de informação antivenenos

Rua Almirante Barroso, 36 1000-013 Lisboa, Portugal

Phone +351213303271

E-mail ciav.tox@inem.pt

Sweden

Swedish Poisons Information Centre

Giftinformationscentralen 171 76 Stockholm, Sweden

Phone +46104566750

E-mail giftinformation@gic.se

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2 H225 Highly flammable liquid and vapour.

Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways.

Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words:

Danger

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Hazard statements:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor
P370+P378 In case of fire: use carbon dioxide, foam, chemical powder to extinguish.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

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

METHYL ACETATE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

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

CAS 64742-48-9 82 \leq x < 86 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066

EC 919-857-5

INDEX

REACH Reg. 01-2119463258-33

METHYL ACETATE

CAS 79-20-9 $8.5 \le x < 12$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 201-185-2 INDEX 607-021-00-X

METHANOL

EC 200-659-6

CAS 67-56-1 1,5 \leq x < 2 Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3

H331, STOT SE 1 H370 STOT SE 2 H371: ≥ 3%

INDEX 603-001-00-X STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation

mists/powders: 0,501 mg/l, STA Inhalation vapours: 3 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear 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. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
ESP	Fenaña	Límites de exposición profesional para agentes químicos en España 2021

ESP España Límites de exposición profesional para agentes químicos en España 2021
FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS

ITA Italia Decreto Legislativo 9 Aprile 2008, n.81
NLD Nederland Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3

Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

TLV-ACGIH ACGIH 2021

RCP TLV ACGIH TLVs and BEIs –

Appendix H

METHANOL

ΕU

Threshold Limit Value



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Туре	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	270	200	1080	800	SKIN		
MAK	DEU	130	100	260	200	SKIN		
VLA	ESP	266	200			SKIN		
VLEP	FRA	260	200	1300	1000	SKIN	11	
VLEP	ITA	260	200			SKIN		
TGG	NLD	133				SKIN		
WEL	GBR	266	200	333	250	SKIN		
OEL	EU	260	200					
TLV-ACGIH		262	200	328	250	SKIN		

METHYL ACETATE Threshold Limit Value	•						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	620	200	1240 (C)	400 (C)		
MAK	DEU	310	100	1240	400		
VLA	ESP	616	200	770	250		
VLEP	FRA	610	200	760	250	SKIN	
TGG	NLD	100					
WEL	GBR	616	200	770	250		
TLV-ACGIH		606	200	757	250		

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
RCP TLV		1200	197				

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

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Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance Colour	liquid colourless	Temperature: 20 °C
Odour	typical of solvent	
Melting point / freezing point	Not available	
Initial boiling point Boiling range	95 °C 95-200 °C	Concentration: 100 %
Flammability	flammable liquid	
Lower explosive limit Upper explosive limit Flash point	Not available Not available -10 °C	Concentration: 0,7 % Concentration: 16 %
Auto-ignition temperature	255 °C	
рН	Not available	
Kinematic viscosity	Not available	
Solubility	immiscible with water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	0,85 kg/l	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

Value

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

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9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l
ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Inhalation - gas) of the mixture: 0,0 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

METHANOL

STA (Oral): 100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Dermal): 300 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation mists/powders): 0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation vapours): 3 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

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

 LD50 (Dermal):
 > 5000 mg/kg rabbits

 LD50 (Oral):
 > 5000 mg/kg rat

 LC50 (Inhalation vapours):
 > 5000 mg/m3

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

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Does not meet the classification criteria for this hazard class RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class Respiratory sensitization Information not available Skin sensitization Information not available GERM CELL MUTAGENICITY Does not meet the classification criteria for this hazard class CARCINOGENICITY Does not meet the classification criteria for this hazard class REPRODUCTIVE TOXICITY Does not meet the classification criteria for this hazard class Adverse effects on sexual function and fertility Information not available Adverse effects on development of the offspring Information not available



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Effects on or via lactation
Information not available
STOT - SINGLE EXPOSURE
May cause drowsiness or dizziness
Target organs
Information not available
Route of exposure
Information not available
STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class
Target organs
Information not available
Route of exposure
Information not available
ASPIRATION HAZARD
Toxic for aspiration 11.2. Information on other hazards

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Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics EC50 - for Crustacea

1000 mg/l/48h

12.2. Persistence and degradability

METHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

METHYL ACETATE

Solubility in water 243500 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

METHANOL

Partition coefficient: n-octanol/water -0,77
BCF 0,2

METHYL ACETATE

Partition coefficient: n-octanol/water 0,18

12.4. Mobility in soil

METHYL ACETATE

Partition coefficient: soil/water 0,18

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects



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Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, 126

IATA:

14.2. UN proper shipping name

ADR / RID: PAINT RELATED MATERIAL IMDG: PAINT RELATED MATERIAL IATA: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, II

IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

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14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33

Limited Quantities: 5 Tunnel restriction code: (D/E)

Special provision: 163, 367, 640D,

650

EMS: F-E, <u>S-E</u>

Cargo:

Limited Quantities: 5

L

Maximum Packaging quantity: 60 L instructions:

364

Pass.: Maximum

Packaging instructions:

quantity: 5 L

353

Special provision:

A3, A72, A192

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

IMDG:

IATA:

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>Product</u>

Point 3 - 40

Contained substance

Point 69 METHANOL

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

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None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

Eye Irrit. 2 Eye irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- · CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%

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LD50: Lethal dose 50%

- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

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- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
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- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:



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