

Safety data sheet

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

1.1. Product identifier

Product name FILAFOB

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

Intended use Anti stains product for natural stone, concrete and terracotta.

1.3. Details of the supplier of the safety data sheet

Name FILA INDUSTRIA CHIMICA S.P.A.

Full address Via Garibaldi, 58

District and Country 35018 San Martino di Lupari (PD)

ITALIA

Tel. +39.049.9467300 Fax +39.049.9460753

e-mail address of the competent person

responsible for the Safety Data Sheet sds@filasolutions.com

1.4. Emergency telephone number

For urgent inquiries refer to TEL +39.049.9467300

UNITED KINGDOM: NHS Direct - +44 0845 4647 or 111 (In England and Wales); NHS 24

- +44 08454 24 24 24 (In Scotland) -

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 EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways. Hazardous to the aquatic environment, chronic toxicity, H413 May cause long lasting harmful effects to aquatic life.

category 4

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:

Xn

R phrases:

10-53-65-66

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



FILAFOB

Revision nr. 14

Dated 08/05/2015 Printed on 14/01/2016

Page n. 2/13

2.2. Label elements.

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





Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways. H413 May cause long lasting harmful effects to aquatic life. **EUH066** Repeated exposure may cause skin dryness or cracking.

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.

P233 Keep container tightly closed. P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

IF SWALLOWED: immediately call a POISON CENTER / doctor / . . . P301+P310

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

Contains: Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

C11-C15 ISO-ALKANES

2.3. Other hazards.

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

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. Conc. %. Classification 67/548/EEC. Classification 1272/2008 (CLP). Hydrocarbons, C10-C12, isoalkanes, < 2%

aromatics

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 4 H413, EUH066 50 - 100 R10, R53, R66, Xn R65 CAS.

EC. 923-037-2

INDEX. -



Reg. no. 01-2119471991-29

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS. 34590-94-8 5 - 9 Substance with a community workplace exposure

limit.

EC. 252-104-2

INDEX. -

Reg. no. 01-2119450011-60 C11-C15 ISO-ALKANES

CAS. 90622-58-5 1 - 5 R66, Xn R65 Asp. Tox. 1 H304, STOT SE 3 H336, EUH066

EC. 292-460-6

INDEX. -

Note: Upper limit is not included into the range.

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

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

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.

For symptoms and effects caused by the contained substances, see chap. 11.

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.

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. Check incompatibility for container material in section 7. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

FILE WITE OR SHOOM	FILA INDUSTRIA CHIMICA S.P.A.	Revision nr. 14
		Dated 08/05/2015
	FILAFOB	Printed on 14/01/2016
	<u> </u>	Page n. 5/13

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a 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:

AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CYP	Κύπρος	Κ.Δ.Π. 268/2001; Κ.Δ.Π. 55/2004; Κ.Δ.Π. 295/2007; Κ.Δ.Π. 70/2012
CZE	Česká Řepublika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany
	·	zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
	•	España 2015
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja
		terveysministeriön julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9
		Φεβρουαρίου 2012
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
SVN	Slovenija	Uradni list Republike Slovenije 15. 6. 2007
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
TUR	Türkiye	2000/39/EC sayılı Direktifin ekidir
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;
		Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

Hydrocarbons, C10-0 Threshold Limit Valu		6 aromatics			
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		1840			



FILA INDUSTRIA CHIMICA S.P.A.

Revision nr. 14

Dated 08/05/2015

Printed on 14/01/2016

FILAFOB

Page n. 6/13

Predicted no-effect concentration - PNEC.

Normal value in fresh water VND

Normal value in marine water VND

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers.

Effects

systemic VND Effects on

consumers.

Acute local Acute systemic Chronic local Chronic

workers Acute local

Acute Chronic local

Chronic systemic

Inhalation.

Route of exposure

VND

systemic system VND VND

DIPROPYLENE GLYCOL MONOMETHYL	ETHER
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Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	307	50	614	100	SKIN.	
VLEP	BEL	308	50			SKIN.	
TLV	CYP	308	50			SKIN.	
TLV	CZE	270		550		SKIN.	
AGW	DEU	310	50	310	50		
MAK	DEU	310	50	310	50		
TLV	DNK	300	50				
VLA	ESP	308	50			SKIN.	
HTP	FIN	310	50				
VLEP	FRA	308	50			SKIN.	
WEL	GRB	308	50			SKIN.	
TLV	GRC	600	100	900	150		
AK	HUN	308		308			
OEL	IRL	308	50			SKIN.	
TLV	ITA	308	50			SKIN.	
TLV	NOR	300	50			SKIN.	
NDS	POL	240		480			
NPHV	SVK	308	50			SKIN.	
MV	SVN	308	50			SKIN.	
MAK	SWE	300	50	450	75	SKIN.	
ESD	TUR	308	50			SKIN.	
OEL	EU	308	50			SKIN.	
TLV-ACGIH		606	100	909	150	SKIN.	

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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. 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

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance liquid Colour Not available Odour characteristic Odour threshold. Not available. N. A. Melting point / freezing point. Not available Initial boiling point. Not available. Not available. Boiling range. Flash point. > 40 °C. Not available. **Evaporation Rate** Flammability of solids and gases Not available. Lower inflammability limit. Not available. Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available. Vapour pressure. Not available. Vapour density Not available. Relative density. 0,763 Kg/l Solubility insoluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature. Not available. Decomposition temperature. Not available. Not available. Viscosity



Explosive properties Not available.
Oxidising properties Not available.

9.2. Other information.

VOC (Directive 2010/75/EC) : 6,50 % - 49,60 g/litre. VOC (volatile carbon) : 3,68 % - 28,11 g/litre.

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.

11.1. Information on toxicological effects.

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.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.



This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics LD50 (Oral).> 5000 mg/Kg LD50 (Dermal).> 5000 mg/Kg LC50 (Inhalation).> 5000 mg/m3

SECTION 12. Ecological information.

This product may damage the structure and/or the functions of the aquatic ecosystems in the long and/or delayed term. **12.1. Toxicity.**

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics Chronic NOEC for Algae / Aquatic Plants.

0,02 mg/l daphnia magna

12.2. Persistence and degradability.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

12.3. Bioaccumulative potential.

DIPROPYLENE GLYCOL MONOMETHYL ETHER Partition coefficient: noctanol/water.

0.0043

12.4. Mobility in soil.

Information not available.

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 greater than 0,1%.

12.6. Other adverse effects.

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.

ADR / RID, IMDG, 3295

ιΔΤΔ.

IMDG:

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

The product, if packaged in packages of less than 30 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

14.2. UN proper shipping name.

ADR / RID: HYDROCARBON

S, LIQUIDS, N.O.S. (ISODECANE AND n-DECANE) HYDROCARBON S, LIQUIDS,

N.O.S. (ISODECANE AND n-DECANE)

IATA: HYDROCARBON

S, LIQUIDS, N.O.S. (ISODECANE AND n-DECANE)

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,

IATA:

14.5. Environmental hazards.

ADR / RID: NO

14.6. Special precautions for user.

Surface case valueloss	FILA INDUSTRIA CH		Revision nr. 14 Dated 08/05/2015	
	EII AEO		ated on 14/01/2016	
	FILAFO	Ь	je n. 11/13	
		L		
ADR / RID:	HIN - Kemler: 30	Limited Quantities: -	Tunnel restriction	
	Special Provision: -		code: -	
IMDG:	EMS: F-E, S-D	Limited		
IATA:	Cargo:	Quantities: - Maximum quantity: 60 L	Packaging instructions:	
	Pass.:	Maximum quantity: 5 L	307 Packaging instructions: 305	
	Special Instructions:	-	303	
	latory information.			
formation not relevant. SECTION 15. Regu 15.1. Safety, health and er		e substance or mixture.		
SECTION 15. Regu	latory information. nvironmental regulations/legislation specific for the	e substance or mixture.		
SECTION 15. Regu 15.1. Safety, health and er Seveso category.	nvironmental regulations/legislation specific for th			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro-	nvironmental regulations/legislation specific for th 6 oduct or contained substances pursuant to Annex XVI			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro-	nvironmental regulations/legislation specific for th			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro-	nvironmental regulations/legislation specific for the 6 adduct or contained substances pursuant to Annex XVI			
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SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro- roduct. Point. ubstances in Candidate List one.	nvironmental regulations/legislation specific for the 6 adduct or contained substances pursuant to Annex XVI 3 - 40 (Art. 59 REACH).			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro- roduct. Point. ubstances in Candidate List one. ubstances subject to authori one.	nvironmental regulations/legislation specific for the 6 adduct or contained substances pursuant to Annex XVI 3 - 40 (Art. 59 REACH).			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro- roduct. Point. ubstances in Candidate List one. ubstances subject to authori one.	nvironmental regulations/legislation specific for the 6 2 duct or contained substances pursuant to Annex XVI 3 - 40 2 (Art. 59 REACH). isarion (Annex XIV REACH).			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro- roduct. Point. ubstances in Candidate List one. ubstances subject to authori one. ubstances subject to exporta	nvironmental regulations/legislation specific for the 6 adduct or contained substances pursuant to Annex XVI 3 - 40 (Art. 59 REACH). isarion (Annex XIV REACH).			
SECTION 15. Regu 15.1. Safety, health and er Seveso category. estrictions relating to the pro- roduct. Point. ubstances in Candidate List one. ubstances subject to authori one. ubstances subject to exportatione.	nvironmental regulations/legislation specific for the 6 adduct or contained substances pursuant to Annex XVI 3 - 40 (Art. 59 REACH). isarion (Annex XIV REACH).			

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the

None.

Healthcare controls.



FILA INDUSTRIA CHIMICA S.P.A.

Revision nr. 14

Dated 08/05/2015

Printed on 14/01/2016

Page n. 12/13

FILAFOB

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 been performed for the following contained substances.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

SECTION 16. Other information.

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

Flam. Liq. 3 Flammable liquid, category 3
Asp. Tox. 1 Aspiration hazard, category 1

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

Aquatic Chronic 4 Hazardous to the aquatic environment, chronic toxicity, category 4

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H413 May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10 FLAMMABLE.

R53 MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC

ENVIRONMENT.

R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- Regulation (EU) 1272/2008 (REACH) of the European Parliament
 Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EU) 453/2010 of the European Parliament

- 7. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 8. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 9. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

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.

Changes to previous review:

The following sections were modified: