

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830

### VRF

Neutral silicone sealant for doors  
and windows and tinsmithery

Revision n. **02**  
Dated **26/04/2021**  
Printed on **26/04/2021**

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Replaced revision: 01  
(Dated: 30/11/2013)



## 1 - Identification of the substance/mixture and of the company/undertaking

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

Application of the substance / the mixture	VRF Code	Description
	VRF 00	Neutral silicone sealant - TRANSPARENT
	VRF 01	Neutral silicone sealant - WHITE (similar to RAL 9010)
	VRF 02	Neutral silicone sealant - IVORY (similar to RAL 1013)
	VRF 03	Neutral silicone sealant - GREY (similar to RAL 7004)
	VRF 04	Neutral silicone sealant - BLACK (similar to RAL 9005)
	VRF 05	Neutral silicone sealant - CHOCOLATE BROWN (similar to RAL 8017)
	VRF 08	Neutral silicone sealant - COOPER BROWN (similar to RAL 8004)
	VRF 11	Neutral silicone sealant - NUT BROWN (similar to RAL 8007)
	VRF 13	Neutral silicone sealant - GREY ALUMINIUM (similar to RAL 9006)

Identified Uses: Production, Processing, Formulation and Distribution of substances and mixtures ✓ **INDUSTRIAL** ✓ **PROFESSIONAL**

Uses Advised Against: Not suitable for use in homemaker (DIY) applications.

### 1.3. Details of the supplier of the safety data sheet

Name	Tecfi S.p.A.
Full Address	S.S.Appia km 193
District and Country	81050 Pastorano (CE) - Italia - tel. 0823 88 3338 - fax 0823 - 883260
e-mail (of the competent person responsible for the Safety Data Sheet)	rdc@tecfi.it

### 1.4. Emergency telephone number

For urgent inquiries refer to	Osp. NIGUARDA CA' GRANDA - Milano 02/66101029 CAV Policlinico "A. Gemelli" - Roma 06/3054343 Osp. "A. Cardarelli" - Napoli 081/7472870
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## 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

### 2.2. Label elements

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

#### Hazard statements

**EUH210** Safety data sheet available on request

**EUH208** Contains: 3-aminopropyltriethoxysilane - CAS n. 919-30-2  
May produce an allergic reaction.

### 2.3. Other hazards

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

The product hydrolyzes with the formation of ethanol (CAS no. 64-17-5). Ethanol is classified both in relation to physical and health hazards.

The rate of hydrolysis and therefore also the relevance for the hazard of the product strongly depend on the specific conditions.

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## 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Polydimethylsiloxane + additives + crosslinker

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Silsesquioxanes, 3-aminopropyl Methyl, ethoxy-terminated		
CAS.128446-60-6 EC. - INDEX. -	$0 \leq x < 3$	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Skin Irrit. 2 H315

#### MISCELA D'IDROCARBURI DEAROMATIZZATI - CAS n. 64742-46-7

CAS. 64742-46-7 EC. 265-148-2 INDEX. - Reg. no. 01-2119552497-29	$0 \leq x < 5$	Asp. Tox. 1 H304
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The full wording of hazard (H) phrases is given in section 16 of the sheet.  
DISTILLATES, PETROLEUM, HYDROTREATED MIDDLE - CAS n. 64742-46-7  
ANNEX VI - CLP (ATP 10) - Notes: N

## 4. First aid measures

### 4.1. Description of first aid measures

Observance of good industrial hygiene is recommended.

General information: In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes: Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin: Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation: Material cannot be inhaled under normal conditions.

After swallowing: Give several small portions of water to drink. Do not induce vomiting.

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

Any relevant information can be found in other parts of this section. For symptoms and effects due to the contained substances, see ch. 11.

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

Further toxicology information in section 11 must be observed.

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## 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Water jet

### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, the formation of dangerous fumes and gases is possible. Exposure to combustion products can be a health hazard. Hazardous products in case of fire: toxic and very toxic fumes.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Keep unprotected persons away. 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 firefighting 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).

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

### 6.2. Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

### 6.3. Methods and material for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

### 6.4. Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

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## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Keep away from incompatible substances in accordance with section 10.

Observe information in section 8.

Precautions against fire and explosion:

Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

### 7.2. Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels: Observe local/state/federal regulations.

Advice for storage of incompatible materials: Observe local/state/federal regulations.

Further information for storage: Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls/personal protection

Recommended monitoring procedures: Since this product contains ingredients with exposure limits, personal monitoring of the atmosphere in the work and biological environment may be required to determine the effectiveness of ventilation or other control measures and / or need to use respiratory protection devices. Refer to monitoring standards, such as the following:

European standard EN 689 (Atmosphere in the working environment - Guide to the assessment of exposure by inhalation to chemical compounds for the purpose of comparison with the limit values and measurement strategy).

European standard EN 14042 (Workplace atmospheres - Guide to the application and use of procedures for the assessment of exposure to chemical and biological agents).

European standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for measuring chemical agents).

Reference should also be made to the national guidance documents on methods for the determination of dangerous substances.

### 8.1. Control parameters

#### Regulatory References:

ITA Italia Decreto Legislativo 9 Aprile 2008, n.81

ROU România HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006

privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției

lucrătorilor împotriva riscurilor legate de prezența agenților chimici

#### POLYSILOXANES

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV	ROU	200	-	300	-	SKIN

#### 3-aminopropyltriethoxysilane - CAS n. 919-30-2

VLEP	ITA	-	1000	-	-	
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Legend:

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

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Limit values for workplace air quality:

CAS No. Product Type mg/m3 ppm

64-17-5 Ethanol TLV\_IT 1000

LDerived No Effect Levels (DNELs) and Predicted No Effect Concentrations (PNECs)

Explanatory note: REACH requires manufacturers and importers to set and report Derived No Effect Levels (DNELs) for humans for the following routes of exposure: inhalation, ingestion, dermal and Predicted No Effect Concentrations (PNECs) for environmental exposure. DNELs and PNECs are established by those registering without an official advisory process, and are not intended to be used directly to set workplace or general exposure limits for the population. They are primarily used as input values in the implementation phase of quantitative risk assessment models (such as the ECETOC-TRA model). Due to differences in contact methodology, the DNEL will tend to be (sometimes significantly) lower than other health-based OELs for chemicals. Furthermore, while DNELs (and PNECs) are an indication for setting risk reduction measures, it should be recognized that these limits do not have the same regulatory enforcement as officially approved government OELs.

### 8.2. Exposure controls

Exposure in the work place limited and controlled

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Avoid contact with eyes and skin. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used.

Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

protective goggles .

Hand protection

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,1 mm

Breakthrough time: 60 - 120 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

protective clothing .

### ENVIRONMENTAL EXPOSURE CONTROLS

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

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## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	paste	Lower explosive limit	Not available
Colour	as showed in color folder	Upper explosive limit	Not available
Odour	alcoholic	Vapour pressure	Not available
Odour threshold	Not available	Vapour density	Not available
pH	Not available	Relative density	1,02 g/cm3*
Melting point / freezing point	Not available	Solubility	insoluble
Initial boiling point	Not available	Partition coefficient: n-octanol/water	Not available
Boiling range	Not available	Auto-ignition temperature	400°C
Flash point	Not available	Decomposition temperature	Not available
Evaporation Rate	Not available	Viscosity	800000 mPa.s @ 23°C (Brookfield)
Flammability of solids and gases	Not available	Explosive properties	Not available
Lower inflammability limit	Not available	Oxidising properties	Not available
Upper inflammability limit	Not available		

\*Remark:ISO 1183-1 A

### 9.2. Other information

Total solids (250°C / 482°F)	99,99 %
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## 10. Stability and reactivity

### 10.1. Reactivity

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.  
Relevant information can possibly be found in other parts of this section.

### 10.2. Chemical stability

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.  
Relevant information can possibly be found in other parts of this section.

### 10.3. Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.  
Relevant information can possibly be found in other parts of this section.

### 10.4. Conditions to avoid

Moisture , Heat, open flames, and other sources of ignition.

### 10.5. Incompatible materials

Reacts with: water, basic substances and acids. Reaction causes the formation of: ethanol.

### 10.6. Hazardous decomposition products

By hydrolysis: ethanol. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

Data on substances:

Hydrolysis products (Ethanol):

Ethanol (64-17-5) is absorbed well and quickly with all routes of exposure. Ethanol can cause irritation of the eyes and mucous membranes as well as functional alterations of the central nervous system, nausea and dizziness. Chronic exposure to large amounts of ethanol can cause damage to the liver and central nervous system.

Aliphatic and naphthenic hydrocarbons:

According to the literature aliphatic hydrocarbons have a slightly irritating effect on the epidermis and mucous membranes. Degreases the skin. Narcotic. In case of direct action on lung tissues (eg by aspiration) it can cause pneumonia.

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

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

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

Product data:

Route of exposure: Oral

Result / Effect: LD50:> 2000 mg / kg

Species / test system: Rat

Source: Conclusion by analogyRoute of exposure: Epidermal

Result / Effect: LD50:> 2000 mg / kg

Species / test system: Rat

Source: Conclusion by analogy

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: Not classified (no significant component)

#### SKIN CORROSION / IRRITATION

Product data:

Result / Effect: No skin irritation

Species / test system: Rabbit

Source: Conclusion by analogy

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Product data:

Result / Effect: No eye irritation

Species / test system: Rabbit

Source: Conclusion by analogy

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

Product data:

Route of exposure: Epidermal

Result / Effect: Does not cause skin sensitization

Species / test system: Guinea pig - Buehler Test

Source: Conclusion by analogy

May produce an allergic reaction.

Contains:

3-aminopropyltriethoxysilane - CAS n. 919-30-2

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#### 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

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 12. Ecological information

### 12.1. Toxicity

Use according to the rules of good working technique, avoiding to disperse the product in the environment (see also sections 6, 7, 13, 14 and 15). Notify the competent authorities if the product has reached waterways or sewers or if it has contaminated the ground or vegetation. There are no eco-toxicological data on the mixture as such. The toxicological information regarding the main substances present in the mixture are listed below.

#### Product data:

Result / Effect Species / test system Source

LC50:> 100 mg / l Fish (96h) Expert judgment

EC50:> 100 mg / l Daphnia magna (48h) Expert judgment

### 12.2. Persistence and degradability

Rating: Silicone content: Not biodegradable. Separation by sedimentation.

Data on substances: Hydrolysis products (Ethanol): ethanol is easily biodegradable

### 12.3. Bioaccumulative potential

Rating: Polymeric component: unlikely biological accumulation.

### 12.4. Mobility in soil

Rating: Silicone content: Insoluble in water.

### 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  $\geq$  than 0,1%.

### 12.6. Other adverse effects

Information not available

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1

Material

Recommendation: Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

#### 13.1.2

Uncleaned packaging

Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

#### 13.1.3

Waste Disposal Legislation Ref.No.(EC) It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined with in the EU in liaison with the waste-disposal operator.



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## 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant Bulk transport in tankers is not intended.

## 15. Regulatory information

None

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

Seveso Category - Directive 2012/18/EC: None

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

Product - Point 40

Substances in Candidate List (Art. 59 REACH):

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

Nessuna

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

If relevant information on individual substance inventories is available, it is listed below.

Japan: ENCS (Handbook of Existing and New Chemical Substances): This product is listed or consistent with the substance inventory.

Australia: AICS (Australian Inventory of Chemical Substances): This product is listed or consistent with the substance inventory.

Canada: DSL (Domestic Substance List): This product is not listed or not in compliance with the substance inventory.

Philippines: PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed or consistent with the substance inventory.

United States of America (USA): TSCA (Toxic Substance Control Act Chemical Substance Inventory): This product is not listed or not in compliance with the substance inventory.

Taiwan: TCSI (Taiwan Chemical Substance Inventory): This product is listed or complies with the substance inventory. General note:

Taiwan chemicals legislation requires a Phase 1 registration of TCSI listed or TCSI compliant substances if the tonnage threshold of 100 kg / year is exceeded for import into Taiwan or production in Taiwan (for mixtures this must be calculated for each ingredient). The responsibility in this regard lies with the importer or manufacturer.

European Economic Area (EEA): REACH (Regulation (EC) no. 1907/2006): General indication: the registration obligations resulting from production or import into the EEA by the suppliers mentioned in paragraph 1 are fulfilled by them. The registration obligations resulting from the import into the EEA by customers or other downstream users must be fulfilled by them.

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### 15.2. Chemical safety assessment

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

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

### 16. Other information

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

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>H226</b>	Flammable liquid and vapour.
<b>H304</b>	May be fatal if swallowed and enters airways
<b>H319</b>	Causes serious eye irritation
<b>H315</b>	Causes skin irritation
<b>EUH210</b>	Safety data sheet available on request

### 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).

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## GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 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
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
  16. Regulation (EU) 2019/521 (XII 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.