

## **SAFETY DATA SHEET**

### GripFactory ElastoGrip

## **1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY / ENTERPRISE**

### **1.1 Product identification**

**Trade name:**

GripFactory ElastoGrip

UFI: KWF1-30XV-Q00Q-Y0X7

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

**Relevant identified uses:**

Anti-slip for surfaces. Professional use only

**Uses advised:**

No uses advised against, as long as the information on this safety data sheet are met.

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

**GripFactory B.V.**

Industrieweg 4 H

3442 AE Woerden

The Netherlands

T +31 348 20 3000

E info@gripfactory.nl

W www.gripfactoryantislip.com

Chamber of Commerce: 73.01.42.65

VAT: NL8593.20.856.B01

### **1.4 Emergency telephone number**

N.P.I.C.

Only for professional helpers in case of emergencies

T +31 348 20 3000

GripFactory B.V.

Industrieweg 4 H

3442 AE Woerden

The Netherlands



+31 (0)348 - 20 30 00



info@gripfactory.nl



www.gripfactoryantislip.com

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Regulation (EC) No 1272/2008:**  
Inflammable.

### 2.2 Label elements

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



**CLP-Pictograms:**  
GHS02, GHS07

F.- Highly flammable  
Xi- Irritant

#### Phrases – R

R11 Highly flammable  
R36 Irritating to eyes  
R66 Repeated exposure may cause skin dryness or cracking  
R67 Vapours may cause drowsiness and dizziness.

#### Phrases – S

S7 Keep container tightly closed  
S16 Keep away from sources of ignition – No smoking  
S24 Avoid contact with skin/eyes  
S25 Avoid contact with skin/eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

**Signal word:**  
Warning.

#### Hazard statement(s):

H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation  
H336 May cause drowsiness or dizziness

#### Precautionary Statement(s):

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking  
P233 Store in a well-ventilated place. Keep container tightly closed  
P303 IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water/ shower  
P304 IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER / doctor if you feel unwell

- P305 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor
- P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor
- P340 IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER / doctor if you feel unwell
- P361 IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water/shower
- P351 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor
- P353 IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water/shower
- P403 Store in a well-ventilated place. Keep container tightly closed
- P501 Dispose of contents/container to an approved waste disposal plant

**Additional information:**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

## 2.3 Other hazards

**Results on PBT and mPmB valuations:**

- This mixture does not meet the criteria for PBT in accordance with regulation (EC) No 1907/2006, Annex XIII.
- This mixture does not meet the criteria for mPmB in accordance with regulation (EC) No 1907/2006, Annex XIII.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

**Dangerous components:**

Indicators	IUPAC Name	Concentration	Classification - Regulation (EC) No 1272/2008
CAS No: 67-63-0 CE No: 200-661-7 INDEX No: 603-117-00-0 REACH No: 01- 2119457558-25-XXXX	propan-2-ol	<10%	Eye Irrit. 2 , H319 Flam. Liq. 2 , H225 STOT SE 3: H336

Full text for the H statements on this section indicated in SECTION 16.

**Occupational exposure limit:**

Section 8.1

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### **General recommendation:**

Have the product container, label or safety data sheet at hand when calling to the National Institute of Toxicology or doctor. Move away the affected person from the exposition source. Move person to fresh air and give him rest. Do not give anything to drink to the victim if he is unconscious. Symptoms as consequences of intoxication may appear after exposition, in case of any doubt of direct exposition to the chemist product or a persistent malaise, seek medical attendance, showing the product's SDS.

#### **Inhalation:**

In case of appearing intoxication symptoms, move the affected person away from the zone of exposition, move him or her to fresh air. Seek medical attention if the symptoms persist or aggravate.

#### **Skin contact:**

Take off contaminated clothing and shoes. Rinse skin or shower the affected person if necessary, with plenty of water and neutral soap. Seek medical attention if the symptoms persist or aggravate.

#### **Eye contact:**

Rinse eye with plenty of water for at least 15 minutes. Avoid the affected person close or rub his or her eyes. In case of the affected person uses contact glasses, this must be removed as long as they are not stuck to the eye, otherwise it would produce an additional damage. Seek medical attention if the symptoms persist or aggravate.

#### **Ingestion:**

Rinse mouth with water. In case of apparition of symptoms, seek a doctor.

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

Main symptoms and effects indicated in sections 2 and 11.

### 4.3 Indication of the immediate medical attention and special treatment required

In case of any doubt or if the symptoms persist, seek medical attendance.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing agents:**

Non-flammable product under normal storage, handling and use circumstances. In case of inflammation as consequence of a wrong storage, handling or use, use preferably:

- Polyvalent fire extinguishers (ABC powder), according to regulation of regulation against (R.D. 1942/1993 and subsequent modifications).
- Alcohol-resistant foam.
- Spray water.
- Atomized Sprayers

#### **Not-suitable extinguishing agents:**

Big volume water jet to avoid fire dispersion.

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

#### **Fire danger**

As consequence of combustion or thermal decomposition reaction sub products are generated that can be highly toxic and, consequently may present a highly risk for health. (SECTION 10).

### 5.3 Advice for firefighters

Depending on fire magnitude, use a complete set of protective clothing and an autonomous breath equipment. Have a minimum of emergency facilities or elements of action (fire blankets, first aid kit...) according to legislation (R.D.486/1997 and subsequent modifications).

#### **Additional information:**

Suppress any source of ignition. In case of fire, refrigerate the storage containers with product susceptible to inflammation or explosion as consequences of high temperatures. Avoid the spill of products used for fire extinction to the aquatic environment.

## 6. ACCIDENTAL RELEASE MEASURES

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

Isolate leaks as long as they do not suppose an additional risk for staff who make this function. Evacuate the zone and keep unprotected people away. Personal protective equipment is required for potential exposition to the spill product (SECTION 8).

### 6.2 Environmental precautions

Prevent contamination on drains, superficial or subterranean water or in soil. On quantities superior to 5000L avoid spill to the aquatic environment due to the danger substances in the product. Keep the absorbed/gathered product on sealable recipients. Notify in case of big spills to the competent authorities according to local regulation.

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

Remove using absorbent such as sand or inert absorbent and move it to container for its elimination according to local legislation. Clean the surface cautiously to eliminate the residual contamination. For any other consideration relative to product elimination, consult section 13.

### 6.4 Reference to other sections

**Personal protection:**  
SECTION 8

**Waste treatment:**  
SECTION 13

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling of the substance or mixture

#### **Advises for a safe handling:**

Comply the actual legislation of prevention of occupational hazards. Keep containers hermetically sealed. Control spills and wastes, eliminating it with secure methods (section 6). Avoid free spill from the container. Keep clean and in order the place of dangerous products handling.

#### **Hygiene measures:**

Don't drink, eat or smoke in working areas; wash hands after every handling. Take off contaminated clothes and protective equipment before enter an eating area.

### 7.2 Conditions for safe storage, including any incompatible products

Storage under local legislation. Look the label indications. Storage containers on an ambient temperature, on a dry and well-ventilated place, away from heat sources and direct sunlight. Avoid static electricity accumulation. Foresee grounding. Once open containers must be cautiously closed and vertically put to avoid spills. Keep it away from incompatibles materials (SECTION 10). Product not affected by Directive 2012/18/EU (SEVESO III).

### 7.3 Specific end use

No finals specific recommendation available.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits

Substances with controlled exposition values in the working environment:

Components	Identification	Environmental Occupational Exposure Limits	
		TLV-TWA	TLV-STEL
propan-2-ol	CAS No: 67-63-0 CE No: 200-661-7	500 mg/m <sup>3</sup> 200ppm-Spain	1000 mg/m <sup>3</sup> 400ppm

#### 8.1.2 Additional exposure limits under the condition of use

DNEL, Human exposition: worker

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
propan-2-ol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	888 mg/Kg weight day	Not relevant
	Inhalation	Not relevant	Not relevant	500 mg/m <sup>3</sup> air	Not relevant

DNEL, Human exposition: consumer

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
propan-2-ol	Oral	Not relevant	Not relevant	26 mg/Kg weight day	Not relevant
	Dermal	Not relevant	Not relevant	319 mg/Kg weight day	Not relevant
	Inhalation	Not relevant	Not relevant	89 mg/m <sup>3</sup> air	Not relevant

PNEC. Values environmental exposure

		Identification			
propan-2-ol	STP	2251 mg/l	Freshwater	140.9 mg/L	
	Soil	28 mg/Kg	Marine water	140.9 mg/L	
	Oral	160 mg/Kg	Sediment (Freshwater)	522 mg/Kg	
	Sediment	522 mg/Kg	Sediment (Marine water)	522 mg/Kg	

## 8.2 Exposure controls

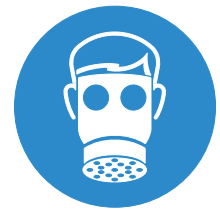
### Engineering measures

The Product must be used on equipment design with the purpose of not expose the operator under normal handling circumstances. The circulation must be started only when all the tubes connections has been done and tested. Proportionate an adequate ventilation.

### Respiratory protection:

Not necessary under normal condition of use.

EPI:	Filtering mask for protection against chemical products
Characteristics:	«CE» mark Category III. The mask must have a wide field of view and an anatomic shape to offer tightness
CEN normative:	EN 136, EN 140, EN 405
Maintenance:	Do not store in high temperatures expose places and wet environments before using. Special control on inhalation and exhalation valves of facial adaptor.
Observations:	Read carefully the manufacturer's instructions regarding the use and maintenance of the equipment. Filters will be attached to the equipment according to risk characteristics (Particles and aerosols: P1-P2-P3, Gases and Vapors: A-B-E-K-AX), Changing as advised by the manufacturer



### Hand protection:

EPI:	Non disposable chemical resistant gloves
Characteristics:	«CE» mark Category III. Check a list of chemical product against which the gloves are resistant before using.
CEN normative:	EN 374-1, En 374-2, EN 374-3, EN 420
Maintenance:	Stablish a timetable for the periodic replacement of gloves to ensure that they are changed before being permeated by contaminants. The use of contaminated containers can be more dangerous than the lack of use, because the contaminant can be accumulated in the material component of the glove.
Observations:	Gloves with cracks, deformation or when the external dirt might decreases its resistance must be immediately replaced
Material:	PVC (Polyvinyl chloride)
Penetration time:	> 480 min.
material thickness:	0.35 mm



### Eye protection:

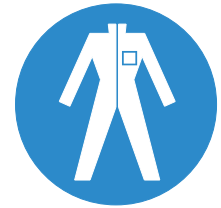
EPI:	Integral frame safety goggles
Characteristics:	«CE» mark Category III. Integral frame eye protector against dust, smokes, mist and vapors.
CEN normative:	EN 165, EN 166, EN 167, EN 168
Maintenance:	Clean daily and disinfect periodically according to manufacture advises. Use recommend in case of spill risks.



**Observations:** Deterioration indicators: yellow coloring, scratches, cracks, etc.

## Skin protection:

<b>EPI:</b>	Chemical resistant clothing
<b>Characteristics:</b>	«CE» mark Category III. Clothing must have a good adjustment. Protection level must be set according to test parameter called "Breaking time" (BT breaking time) which indicates the time the chemical takes to pass through the material.
<b>CEN normative:</b>	Conservation and washing instructions must be provided by manufacturer to ensure unchanged protection
<b>Maintenance:</b>	The protective clothing design should facilitate their correct positioning and permanence without displacement, during the intended period of use, considering the environmental factors, along with the movements and postures that the user can adopt during their activity.
<b>Observations:</b>	Conservation and washing instructions must be provided by manufacturer to ensure unchanged protection.



## Foot protection:

<b>EPI:</b>	chemical resistant footwear and with anti-static properties
<b>Characteristics:</b>	«CE» mark Category III. Check a list of chemical product against which the shoes are resistant before using
<b>CEN normative:</b>	EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345
<b>Maintenance:</b>	For correct maintenance of this kind of safety footwear it is essential to take into account the instructions specified by the manufacturer. Replace footwear must be replaced in the event of any signs of deterioration.
<b>Observations:</b>	Clean footwear regularly and dries when wet but without placing it too close to a heat source to avoid sudden temperature changes.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information about basic physical and chemical properties

Information on this section referred to the product, unless it is specified relative data to each substance.

#### Physical aspect:

Physical state to 20 °C:	liquid
Aspect:	uncolored liquid
Color:	uncolored
Odor:	Not relevant
Olfactory threshold:	Not relevant *

#### Volatility:

Boiling temperature (atmospheric pressure):	82.5 °C
Evaporation rate (20 °C):	Not relevant *

#### Product characterization:

Density at 20°C:	0.81 g/cm <sup>3</sup>
Relative density (20 °C):	1.034
Dynamic viscosity:	Not relevant *
Kinematical viscosity at 20 °C:	Not relevant *
Kinematical viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapor density at 20 °C:	2.07
Octane/water coefficient of distribution a 20 °C:	Not relevant *
Water solubility at 20 °C:	Miscible
Solubility property:	Not relevant *
Decomposition temperature:	Not relevant *
Fusion/freezing point:	Not relevant *
Explosive properties:	Not relevant *
Oxidizing properties:	Not relevant *

#### Product characterization:

Inflammation point:	11.5 °C
Flammability: (solid, gas):	Not relevant *
Auto-ignition temperature:	Not relevant *
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

\*Not relevant because the nature product, does not contribute characteristic information about its danger.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Non-reactive under normal storage and use conditions.

### 10.2 Chemical stability

Stable for 12 months under normal storage and handling conditions.

### 10.3 Possible dangerous reactions

No hazardous reactions are expected.

### 10.4 Conditions to avoid

- Heat
- Ignition sources

### 10.5 Chemically incompatible materials

- Oxidizing agents.
- Strong acids
- Strong alkalis

### 10.6 Hazardous decomposition products

By thermal decomposition may form toxic gases:

- Carbon dioxide.
- Carbon monoxide.
- Acetaldehyde
- Nitrogen oxides
- Organics components

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### a) Acute toxicity

The classification criteria are not met.

Substance Acute Toxicity estimated (ATE)	
Oral ATE	>2000 mg/Kg
Skin ATE	>2000 mg/Kg
Inhalation ATE	>20 mg/L air (1 h)

#### b) Skin corrosion/irritation

Contain substances that may cause skin corrosion or irritation.

#### c) Serious eye damage/irritation

Contain substances that may cause eye damage or irritation

#### d) Respiratory or skin sensitization

Contain substances that may cause a skin allergic reaction.

#### e) Specific target organ toxicity (STOT) - repeated exposure

Classification criteria are not met.

#### f) Specific target organ toxicity (STOT) - single exposure

It may cause dizziness and drowsiness.

#### g) Carcinogenicity

Classification criteria are not met.

#### h) Germ cell mutagenicity

Classification criteria are not met.

#### i) Reproductive toxicity

Classification criteria are not met.

#### j) Aspiration hazard

Classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

propan-2-ol				
	Parameter	Species	Method	Exposure time
Short-term acute toxicity, fish	LC <sub>50</sub> =11300 mg/L	Lepomis macrochiru	No available data	96 h
Long-term acute toxicity, Aquatic invertebrates	EC <sub>50</sub> = 2400 mg/L	Daphnia magna	No available data	48 h
Toxicity to aquatic algae	EC <sub>50</sub> = 2900 mg/L	Pseudokirchneriella subcapitata	No available data	72 h
Toxicity to cyanobacteria	No available data	No available data	No available data	No available data

### 12.2 Persistence and degradability

No information available exist about persistence and degradability.

### 12.3 Bioaccumulation

Propan-2-ol: Log Pow=0.05 bioaccumulation potential: low

No information relative to the bioaccumulation of the present substances.

### 12.4 Mobility in the soil

No information available about mobility in soil. It must not be allowed the pass to sewers or waterways of the product . Avoid soil penetration.

### 12.5 Results of PBT and vPvB assessment

Mixture not considered as persistent, bioaccumulative and toxic (PBT).Mixture not considered as persistent, bioaccumulative and toxic (mPmB).

### 12.6 Other adverse effects

Unknown.



## 13. DISPOSAL INSTRUCTIONS

### 13.1 Waste treatment methods

#### Type of waste (Regulation (EU) No 1357/2014)

**Code:**

Unable to assign a specific code.

Spill to sewer or waterways not allowed.

**Waste Management:**

Consult to authorized waste manager the validation and elimination operation according to Annex 1 and 2 (Directive 2008/98/CE, law 22/2011). According to codes 15 01 (2014/955/EU) the container in case of contact with the product it will be managed the same way that the product himself, otherwise it will be managed as non-hazardous waste. Product disposal to the water is not advice. See section 6.2.

**Legislative provisions related to waste management:**

According to Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or state provisions related to waste management are:

- Community legislation: Directive 2008/98 / EC, 2014/955 / EU, Regulation (EU) No 1357/2014.
- National legislation: Law 22/2011.

## 14. TRANSPORT INFORMATION

ADR-RID (land transport), IMDG (sea transport), IATA (air transport)

### 14.1 UN number

- ADR-RID 1219
- IMDG 1219
- IATA 1219

### 14.2 Proper shipping name in accordance with the model regulations of the UN

- ADR-RID N.E.P ISOPROPANOL
- IMDG N.E.P ISOPROPANOL
- IATA N.E.P ISOPROPANOL

### 14.3 Transport hazard class(es)

- ADR-RID 3
- IMDG 3
- IATA 3

### 14.4 Packing group

- ADR-RID II
- IMDG II
- IATA II

### 14.5 Environmental hazards

**Marine pollutant:**

No

### 14.6 Special precautions for the user

Not regulated.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## 15. REGULATIONS

### 15.1 Specific safety, health and environmental regulations and legislation for the substance or mixture

#### Regulations applied:

- REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
- REGULATION (EU) 2016/918 OF THE COMMISSION of 19 May of 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
- Regulation (EC) No 1907/2006 (REACH) OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, of 18 December 2006, concerning the Registration, Evaluation, Authorization and Restriction of Chemicals, upgrade according to regulation (EU) 2015/830 of 28 May 2015 amending regulation (EC) No 1906/2006.
- REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products.
- DIRECTIVE 2003/15/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL in order to include allergenic perfuming ingredients from the list first established by SCCNFP in its SCCNFP / 0017/98 and successive amendments to the Scientific Committee on Cosmetic Products and Non-Food Products (SCCNFP).
- SEVESO III: DIRECTIVE 2012/18 / EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances and amending and subsequently repealing Directive 96/82 / EC.

#### Other regulations:

- SEVESO III: DIRECTIVE 2012/18 / EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances and amending and subsequently repealing Directive 96/82 / EC: Section 7
- Substances candidates to authorization according to regulation (EC) 1907/2006 (REACH): not present or not present on regulatory quantities.
- Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer: not present or not present on regulatory quantities.
- Regulation (EC) No. 850/2004 on persistent organic pollutants: not present or not present on regulatory quantities.
- Regulation (EC) No. 689/200 concerning the export and import of dangerous chemicals: not present or not present on regulatory quantities.
- Regulation (EC) No 1907/2006, REACH Article 59(1). Candidates list: not present or not present on regulatory quantities.
- Regulation (CE) No. 1907/2006 REACH. Annex XIV. Substances subject to authorization with posterior modifications: not present or not present on regulatory quantities.
- Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work: not present or not present on regulatory quantities.
- Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding: not present or not present on regulatory quantities.
- REGULATION (EC) No 166/2006 Annex II: Pollutants. Concerning the establishment of a European Pollutant Release and Transfer Register: not present or not present on regulatory quantities.
- Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work: not present or not present on regulatory quantities.

### 15.2 Chemical safety assessment

The supplier has not carried out chemical safety assessment.

## 16. OTHER INFORMATION

### 16.1. Applicable safety data sheet legislation

This SDS has been redacted according to ANNEX II-guide for the elaboration of SDS of regulation (CE) No 1907/2006 (REACH), upgrade according to regulation (EU) No 2015/830 of 28 May 2015.

### 16.2 Texts and phrases contemplated on section 3

#### Regulation no1272/2008 (CLP):

Eye Irrit. 2: Eye irritation. Category 2

Flam. Liq. 2: Flammables liquids. Category 2

Specific target organ toxicity (STOT) - single exposure. Category 3.

H225 Very flammables liquids and vapors.

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness.

### 16.3 Abbreviators and acronyms

LD50	Median Lethal Dose
LC50	Median Lethal Concentration
EC50	Median Effective Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
ADR	European agreement concerning the International carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (Code)
IATA	International Air Transport Association
OACI	International Civil Aviation Organization
PBT	Persistent, bioaccumulative, toxic
mPmB	Very persistent, very bioaccumulable
NOEC	No Observed Effect Concentration
FBC	Factor of bioconcentration
BOD	Biological oxygen demand
BOD5	Biological oxygen demand at 5 days
Log POW	Octane/water partition coefficient logarithm
Koc	Organic carbon partition coefficient
TLV-STEL	Threshold limit value - Short-term exposure limit (15 minutes)
TLV-TWA	Threshold limit value - Time weighted average (8 hours)
DNEL	Derived no-effect level
PNEC	Predicted No Effect Concentration
INCI	International nomenclature for cosmetic ingredients
IUPAC	Organic nomenclature

#### 16.4 Main bibliography sources

- <http://echa.europa.eu>
- <http://europhrac.eu>
- <http://echemportal.org>
- <http://toxnet.nlm>
- <http://inchem.org>
- <http://epa.gov>
- <http://insh.es>
- Access to the European Union rights, <http://eur-lex.europa.eu/>
- European agreement concerning the international carriage of dangerous goods by road (ADR 2015)
- International maritime code for dangerous goods IMDG including amendment 37-14 (IMO, 2014)

#### 16.5 Methods for information assessment

##### Article 9 Regulation No1272/2008 (CLP).

The mixture classification based, in general, on methods of calculation of the substances, according to regulation (EC), No 1272/2008. If data are available for some mixtures or the weighting assessment can be used, it will be indicated on the relevant sections of the Safety data sheet. See section 9 for physicochemical properties, section 11 for toxicological information and section 12 for ecological information.

#### 16.6 Modifications regarding the previous version

##### REPLACE VERSION 1 OF 14/05/2015

Upgrade of all the sections on this SDS according to Regulation (EU) No 2015/830 of 28 of May 2015, which modified the Regulation (EC) No 1906/2006 classification according to Regulation (EC) No 1272/2008 (CLP) OF THE EUROPEAN PARLAMENT AND COUNCIL of 16 of December 2008 about classification, label and storage of substances and mixtures.

It is advisable to carry out basic training regarding safety and occupational hygiene to perform a correct handling of the product.

The information on this SDS is based on sources, technical knowledge and the actual European and state legislation. The information provided is intended only as a guide for safety in handling, use, processing, storage, transport, disposal and unloading and should not be considered as a guarantee or quality specification. The information relates only to the specified material, and may not be valid for such material, used in combination with other materials or in any process, unless indicated on the text.