SELF-POLISHING CARGO DETERGENT

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# Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

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

#### 1.1. Product identifier

411 00 16200-3910-5 L Code: 411 00 16420-4020-25 L

Product name SELF-POLISHING CARGO DETERGENT

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

Intended use **Automotive cleaner** 

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

Name Meccanocar Italia S.r.l. Full address Via San Francesco, 22 District and Country 56033 Capannoli (PI)

Italy

Tel. +39 0587 609433 Fax +39 0587 607145

e-mail address of the competent person

responsible for the Safety Data Sheet moreno.meini@meccanocar.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to National Poisons Information Service: +44 121 507 4123

#### **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 2015/830. 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:

Serious eye damage, category 1 H318 Causes serious eye damage. Skin irritation, category 2 H315 Causes skin irritation.

Hazardous to the aquatic environment, chronic toxicity, Harmful to aquatic life with long lasting effects. H412

category 3

#### 2.2. Label elements

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

Hazard pictograms:

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Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.

H315 Causes skin irritation.

**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

**P280** Wear eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor.

P273 Avoid release to the environment.

**P501** Dispose of contents / container in accordance with local regulations.

Contains: ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)

AMMONIUM SULPHATE

ETHYLENE DIAMINE TETRA ACETIC ACID

#### 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**

#### 3.2. Mixtures

Contains:

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

ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)

CAS 68439-50-9  $8 \le x < 9$  Eye Dam. 1 H318

EC 931-014-3

INDEX -

**ETHYLENE DIAMINE TETRA** 

ACETIC ACID

CAS 60-00-4  $4,5 \le x < 5$  Eye Irrit. 2 H319

EC 200-449-4

INDEX 607-429-00-8

Reg. no. 01-2119486399-18-XXXX

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE 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

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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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 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. 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:

TLV-ACGIH

ACGIH 2019

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		10				INHAL	
TLV-ACGIH		3				RESP	
Predicted no-effect conce	entration - PNEC						
Normal value in fresh wa	ter			2,2	1	mg/l	
Normal value in marine w	/ater			0,22	1	mg/l	
Normal value of STP mic	roorganisms			43	1	mg/l	
Normal value for the terre	estrial compartment			0,72	1	mg/kg	

Health -	Derived	no-effect	level -	DNEL.	/ DMEL
			Fffe	cts on	

consumers

Effects on workers

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#### SELF-POLISHING CARGO DETERGENT

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg				
				bw/d				
Inhalation	1,2 mg/m3		0,6 mg/m3		3 mg/m3		1,5 mg/m3	_

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.

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.

Provide an emergency shower with face and eye wash station.

#### 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 Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### **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.

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Respiratory protection: respiratory protection suitable for lower concentrations or short-term effect: particle filter with medium efficiency for solid and liquid particles (eg EN 143 or 149, type P2 or FFP2)

Hand protection: chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged direct contact (Recommended: protection index 6, corresponding to> 480 minutes of breakthrough time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm) and others

Eye protection: safety glasses with side shields (protective glasses) (eg EN 166)

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# **SELF-POLISHING CARGO DETERGENT**

# **SECTION 9. Physical and chemical properties**

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

Appearance clear liquid
Colour yellow
Odour characteristic
Odour threshold Not available

рН 11 0°C Melting point / freezing point Initial boiling point 100 °C Boiling range 100 °C Flash point > 100 °C Not available Evaporation rate Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Not available Vapour pressure Not available Vapour density Relative density 1.00-1.05 Solubility soluble in water Partition coefficient: n-octanol/water Not available Auto-ignition temperature > 100 °C Decomposition temperature Not available >30 cSt Viscosity Explosive properties not explosive

#### 9.2. Other information

Information not available

Oxidising properties

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

Not available

#### ETHYLENE DIAMINE TETRA ACETIC ACID

The acid is less stable than its salts and tends to decarboxylate at over 150°C/302°F. It is an antioxidant, aqueous suspensions react with acids to develop CO2 from carbonates and hydrogen from metals.

#### 10.2. Chemical stability

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# **SELF-POLISHING CARGO DETERGENT**

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

# 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

ETHYLENE DIAMINE TETRA ACETIC ACID

Avoid humidity. Avoid the formation of dust.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

ETHYLENE DIAMINE TETRA ACETIC ACID

May develop: nitric oxide.

# **SECTION 11. Toxicological information**

# 11.1. Information on toxicological effects

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

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:

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Not classified (no significant component)

#### AMMONIUM SULPHATE

Method: Equivalent or similar to OECD 401

Reliability: 2

Species: Rat (Gassner; male / female)

Route of exposure: Oral

Results: LD50 = 4250 mg / kg bw

Method: Equivalent or similar to OECD 433

Reliability: 2 Species: Rat (Sprague-Dawley; male)

Route of exposure: Inhalation (aerosol) Results: LC0 = 3.5 mg / m3 air

Method: OECD 434

Reliability: 2

Species: Rat (Wistar; male / female) Route of exposure: Dermal Results: LD50> 2000 mg / kg bw

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Equivalent or similar to OECD 401

Reliability: 2

Species: Rat (male / female) Route of exposure: Oral Results: LD50 = 4500 mg / kg bw

Method: OECD 412 Reliability: 1

Species: Rat (Wistar; male)

Route of exposure: Inhalation (aerosol)

Results: Harmful

# SKIN CORROSION / IRRITATION

Causes skin irritation

#### AMMONIUM SULPHATE

Method: Not indicated

Reliability: 2

Species: Rabbit (Vienna White) Route of exposure: Dermal Results: Not irritating

# ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Not indicated

Reliability: 2

Species: Rabbit (Vienna-White) Route of exposure: Dermal Results: Not irritating

## SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

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# **SELF-POLISHING CARGO DETERGENT**

Method: Not indicated

Reliability: 2

Species: Rabbit (Vienna White)
Route of exposure: Ocular
Results: Not irritating

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Not indicated

Reliability: 2

Species: Rabbit (Vienna-White) Route of exposure: Ocular

Results: Irritating

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Skin sensitization

ETHYLENE DIAMINE TETRA ACETIC ACID

Method: OECD 406-Read across

Reliability: 1

Species: guinea pig (Hartley; female)

Route of exposure: Dermal Results: Not sensitizing

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### AMMONIUM SULPHATE

Method: OECD 476-In vitro test

Reliability: 1

Species: Chinese hamster

Results: Negative with and without metabolic activation

Method: Not indicated - In vivo test

Reliability: 2

Species: Mouse (ddY; male) Route of exposure: Intraperitoneal

Results: Negative

Bibliographic reference: Micronucleus test in mice on 39 food additives and eight miscellaneous chemicals, Hayashi M et al, (1988)

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Equivalent or similar to OECD 471-Read across-Test in vitro

Reliability: 2

Species: S. typhimurium, E.Coli

Results: Negative with and without metabolic activation

Method: OECD 474-Read across-Test in vivo

Reliability: 1

Species: Mouse (NMRI; male) Route of exposure: Oral Results: Negative

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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#### AMMONIUM SULPHATE

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: NOAEL = 256 mg / kg bw / day

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Not indicated-Read across

Reliability: 2

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: NOAEL> = 500 mg / kg bw / day

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Not indicated-Read across

Reliability: 2

Species: Rat (FDRL; male / female)

Route of exposure: Oral

Results: NOAEL (fertility)> = 250 mg / kg bw / day

Bibliographic reference: Safety Evaluation Studies of Calcium EDTA, Oser, B.L. et al, (1963)

Adverse effects on development of the offspring ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Not indicated

Reliability: 2

Species: Rat (Albino) Route of exposure: Oral

Results: NOAEL (development)> = 967 mg / kg bw / day

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### AMMONIUM SULPHATE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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#### AMMONIUM SULPHATE

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (Fischer 344; male / female) Route of exposure: Oral

Results: NOAEL = 256 mg / kg bw / day

ALCOHOLS, C12-C14, ETHOXYLATES (> 2-5EO)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

#### ETHYLENE DIAMINE TETRA ACETIC ACID

Method: Not indicated-Read across

Reliability: 2

Species: Rat (Holtzmann; male) Route of exposure: Oral

Results: NOAEL> = 500 mg / kg bw / day

Bibliographic reference: The Toxicity and Pharmacodynamics of EGTA: Oral Administration to Rats and Comparisons with EDTA, Wynn, J.E. et al,

(1970)

Method: OECD 413-Read across

Reliability: 1

Species: Rat (Wistar; male / female) Route of exposure: Inhalation (dust) Results: NOAEC = 3 mg / m3 air

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

#### ETHYLENE DIAMINE TETRA ACETIC ACID

LC50 - for Fish 1000 mg/l/96h
EC10 for Algae / Aquatic Plants 29,2 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 29,2 mg/l

AMMONIUM SULPHATE

LC50 - for Fish 53 mg/l/96h EC50 - for Crustacea 169 mg/l/48h

#### 12.2. Persistence and degradability

ETHYLENE DIAMINE TETRA ACETIC ACID

Solubility in water 400 mg/l

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Entirely degradable

#### 12.3. Bioaccumulative potential

ETHYLENE DIAMINE TETRA ACETIC ACID

Partition coefficient: n-octanol/water -3,34
BCF 1,1

#### 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.

CONTAMINATED PACKAGING

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

#### ETHYLENE DIAMINE TETRA ACETIC ACID

It must be discharged or incinerated in accordance with local regulations.

# **SECTION 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

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14.3. Transport hazard class(es)	
Not applicable	
44.4 Packing group	
14.4. Packing group	
Net confischie	
Not applicable	
14.5. Environmental hazards	
14.5. Environmental nazaros	
Not applicable	
Not applicable	
14.6. Special precautions for user	
14.0. Special precautions for user	
Not applicable	
That applicable	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
,	
Information not relevant	
SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Seveso Category - Directive 2012/18/EC: None	
D 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product	
Point 3	
Substances in Candidate List (Art. 59 REACH)	
Substances in Candidate List (Art. 39 NEACH)	
On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.	
, , , , , , , , , , , , , , , , , , , ,	
Substances subject to authorisation (Annex XIV REACH)	
None	
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:	

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None

Substances subject to the Rotterdam Convention:

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:

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

#### 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

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- 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

- 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 (EÚ) 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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.