PAG ABRASIVES SRL

Revision nr. 1

Dated 03/08/2017

Printed on 03/08/2017

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Polishing Powders

Safety data sheet

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

1.1. Product identifier

Code: POEX/POYL
Product name and synonym Polishing Powder

Powder 5 Extra / Powder 5 Yellow / Powder 5 White (all types)

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Polishing mixture for marble and stone, professional use

1.3. Details of the supplier of the safety data sheet

Name PAG ABRASIVES SRL
Full address Via Conturli 51/A
District and Country 16042 Carasco (Genova)

Italia

tel. +39-0185350741 fax 39-0185350102

e-mail address of the competent person

responsible for the Safety Data Sheet marcello@pagabrasives.com

1.4. Emergency telephone number

For urgent inquiries refer to Servizio Antiveleni – Ist. Gaslini –Genova - +39 010 5636245

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.

Hazard classification and indication:

Acute toxicity, category 4 H302 Harmful if swallowed.
Acute toxicity, category 4 H312 Harmful in contact with skin.
Serious eye damage, category 1 H318 Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms:





Signal words: Danger

Hazard statements:

H302+H312 Harmful if swallowed or in contact with skin. H318 Causes serious eye damage.

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Precautionary statements:

P264 Wash face and hands thoroughly after handling.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor / physician / if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water P305+P351+P338 IF IN EYES: Rinse cautiously with wate

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

rınsıng.

P310 Immediately call a POISON CENTER / doctor / physician P280 Wear protective gloves / clothing and eye / face protection.

Contains: OXALIC ACID

POTASSIUM HYDROGEN OXALATE

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 1272/2008
		(CLP)

POTASSIUM HYDROGEN OXALATE

CAS 127-96-8 55-72 Acute Tox. 4 H302, Acute

Tox. 4 H312, Note A

EC 204-874-6 INDEX 607-007-00-3

Reg. no. 01-2119979573-22-0002

OXALIC ACID

CAS 6153-56-6 1-4,5 Acute Tox. 4 H302, Acute

Tox. 4 H312, Eye Dam. 1

H318

EC 205-634-3 INDEX 607-006-00-8

Reg. no. 01-2119534576-33

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

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.

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

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

POTASSIUM HYDROGEN OXALATE

Prolonged or repeated contact with skin can cause dermatitis. Inhalation can cause immediate nose and throat burning sensation, cough, breathlessness, sore throat.

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

See section 4.1

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.

POTASSIUM HYDROGEN OXALATE

Combustion could cause the formation of caustic potassium oxide fumes.

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

If there are no contraindications, spray powder with water to prevent the formation of dust.

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 and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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.

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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)

See section 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ΕU Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; OEL EU

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2016**

Threshold Limit Value Type	Country	TWA/8h		STEL/15min		
, ,,,,	Country	mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		1	ppiii	2	ррш	ACGIH 1990-1991
Predicted no-effect concentrati	on - PNFC	'		-		7.001111000 1001
Normal value in fresh water	011 11420			0,1622	mg/l	
Normal value in marine water				0,01622	mg/l	
Normal value for water, intermi	ttent release			1,622	mg/l	
Normal value of STP microorganisms			1550	mg/l		
Health - Derived no-effect		nmei .		1550	mg/i	
neaith - Derived no-enec	Effects on	JIVIEL			Effects on	
Route of exposure	consumers				workers	
Oral				1,14 mg/kg		
nhalation				bw/d		4,03 mg/m3
Skin	0,35 mg/cm2			1,14 mg/kg	0,69 mg/cm2	2,29 mg/kg
JKIII	0,55 mg/cm2			bw/d	0,09 mg/cm2	bw/d
0V4110 40ID						
OXALIC ACID Threshold Limit Value						
Гуре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	1				
TLV-ACGIH		1		2		
Predicted no-effect concentration	on - PNEC					
Normal value in fresh water				0,1622	mg/l	
Normal value in marine water				0,01622	mg/l	
Normal value for water, intermittent release			1,622	mg/l		
Normal value of STP microorganisms			1550	mg/l		
Health - Derived no-effect	t level - DNEL / I	OMEL				
nountil Donnou no onco	Effects on				Effects on	

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1,14 mg/kg Oral

bw/d

Inhalation 4,03 mg/m3 2,29 mg/kg 0,35 mg/cm2 Skin 1,14 mg/kg 0.69 ma/cm2

bw/d bw/d

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

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

Long term exposure – Butyl safety gloves

Short term exposure – Nitrile gloves

SKIN PROTECTION

Wear category II 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.

Skin protection: acid-resistant clothes

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

See the attched exposure scenario.

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance solid powder Colour bianco - giallo Odour odourless Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not available Not available Boiling range > 60 °C Flash point Evaporation rate Not available 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 Vapour pressure Not available

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Vapour density Not available Relative density Not available partially soluble Solubility 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

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

Saturated aqueous solutions behave like medium-strong acids.

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

POTASSIUM HYDROGEN OXALATE

In case of contact with hot surfaces or flames, this substance decomposes creating formic acid and carbon monoxide. Solution in water is a medium-strong acid.

OXALIC ACID

Decomposes at temperatures above 157°C/315°F.

10.2. Chemical stability

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.

Possible emission of toxic vapors by heating over decomposition point.

Reaction with strong oxidizer.

POTASSIUM HYDROGEN OXALATE

It strongly reacts with strong oxidizers and may cause fire and explosions. It reacts with some silver compounds creating explosive silver oxalate. It attacks some type of plastic.

OXALIC ACID

May form explosive mixtures with: oxidizing substances. Reacts violently developing heat on contact with: alkaline metals, ammonia, mercury, furfuryl alcohol, chlorates, hypochlorites. Risk of explosion on contact with: sodium chlorite, silver.

10.4. Conditions to avoid

Avoid accumulation of dust.

OXALIC ACID

Avoid contact with oxidizers. It strongly reacts with furfuryl alcohol, silver, sodium chloride and sodium hypochlorite.

10.5. Incompatible materials

POTASSIUM HYDROGEN OXALATE

Alkaline solutions, ammonia, halogenated, oxidizers, metals.

Water.

OXALIC ACID

Incompatible with: strong oxidants, metals, alkaline metals, furfurylic acid, chlorine compounds.

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10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, formic acid.

POTASSIUM HYDROGEN OXALATE

Formic acid, Carbon Dioxide, Carbon monoxide, Silver Oxalate, Potassium Oxide.

OXALIC ACID

May develop: carbon oxides.

SECTION 11. Toxicological information

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

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

11.1. Information on 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

POTÁSSIUM HYDROGEN OXALATE

Immediate effects

First effect on health is local irritation due to change of pH. So absorption is not relevant for effects evaluation

Chronic effects

Repeated dose oral toxicity: LOAEL = 150 mg/kg bw/day (Read-across - OECD 407 - Repeated Dose 28-Day Oral Toxicity in Rodents).

Repeated dose dermal toxicity: not relevant, skin absorption is not significant.

Repeated dose inhalation toxicity: not considerable.

Interactive effects

Information not available

ACUTE TOXICITY

Acute toxicity data of the mixture have been calculated wit formula as per point 3.1.3.6.1. of Attachment I of CLP Regulationsot they are Acute Toxicity Estimate (ATE).

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

ATE (Oral) of the mixture:556 mg/kg

ATE (Dermal) of the mixture:1630 mg/kg

POTASSIUM HYDROGEN OXALATE

LD50 (Oral) > 375 mg/kg Rat (female); according to method Smyth et al. (1962)

LD50 (Dermal) > 20000 mg/kg Rabbit; Pesticide Action Network (PAN) Database 2010

OXALIC ACID

LD50 (Oral) > 375 mg/kg Rat (female); according to method Smyth et al. (1962)

LD50 (Dermal) > 20000 mg/kg Rabbit; Pesticide Action Network (PAN) Database 2010

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROGEN OXALATE

Potassium trihidrogen dioxalate is not irritant on skin (method QSAR in silico).

OXALIC ACID Species: Rabbit Exposure time: 4 h

Result: No skin irritation Classification: non irritant Method: Guide Line 404 for OECD BPL test: yes.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

POTASSIUM HYDROGEN OXALATE

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Potassium trihidrogen dioxalate is not irritant (OECD 460, in vitro).

OXALIC ACID

Species: eye of rabbit

Risult: Risk of serious eye injuries. Classification: Risk of serious eye injuries. Method: Guide Line 405 for OECD Test BPL: yes.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

OXALIC ACID Species: Mouse Risult: non sensitizing

Method: Guide Line 405 for OECD BPL Test: yes.

Skin sensitization

POTASSIUM HYDROGEN OXALATE

Potassium trihidrogen dioxalate is not skin sensitizing (OECD 429 - Skin Sensitisation: Local Lymph Node Assay).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROGEN OXALATE

Bacterial mutation test (Ames test, OECD 471): Negative.

Mammalian Chromosome Aberration Test (OECD 473 - In Vitro Mammalian Chromosome Aberration Test): Negative.

The substance has not genotoxic effects.

OXALIC ACID

Test: method Ames

Species: Salmonella typhimurium. Metabolic Activation: with and without

Method: Guide Line 471 for Test OECD Result: Negative with and without metabolic activation

BPL: no data available

Test: Chromosome Aberration Test

Species: Cell V79 (lungs embryonic fibroblast) of chinese hamster

Metabolic activation: without

Method: Guide Line 473 for Test OECD Result: negative

BPL: No data available The product is not mutagenic

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROGEN OXALATE

The substance is not considered carcinogenic

OXALIC ACID

non determined.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

OXALIC ACID

No reproductive toxicity

Adverse effects on sexual function and fertility

POTASSIUM HYDROGEN OXALATE

The substance is not toxic for reproduction (experimental data on mice, OECD 416 - Two-Generation Reproduction Toxicity Study).

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

OXALIC ACID

No data available.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

OXALIC ACID

Rat:

LOAEL: 150 mg/kg

Metodo: Guide Line 407 for Test OECD BPL: yes.

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ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class OXALIC ACID

No data available.

SECTION 12. Ecological information

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

12.1. Toxicity

Potassium trihidrogen

<u>dioxalate</u>

LC50 - fish 160 mg/l/48h Leuciscus idus melanotus; in accordo con il metodo Deutsche Einheitsverfahren

zur Wasser, Abwasser und Schlamm-Untersuchung L 15 Fischtest.

EC50 - shellfish 162,2 mg/l/48h Daphnia magna; in accordo con il metodo OECD 202

Effect threshold - Aquatic 80 mg/l/8d Microcystis aeruginosa; Fonte bibliografica Mitt. Internat. Verein. Limnol. 21: 275-

algae 284 (1978).

1550 mg/l/16h Pseudomonas putida; Fonte bibliografica Water Research 14: 231-241 (1980). **Effect** threshold

Microorganisms

176,68 ug/ape/48h Apis mellifera; Fonte bibliografica J. Econ. Entomol. 5: 1579-1582 (2006). LD50 - terrestrial arthropods

EC50 - terrestrial plants 8 mM/72h Lactuca sativa; in accordo con metodo Reynolds T. (1975) Characterization of

osmotic restraints on lettuce fruit germination.

Oxalic acid

LC50 - fish 160 mg/l/48h Leuciscus idus melanotus; in accordo con il metodo Deutsche Einheitsverfahren

zur Wasser, Abwasser und Schlamm-Untersuchung L 15 Fischtest.

EC50 - shellfish 162,2 mg/l/48h Daphnia magna; in accordo con il metodo OECD 202

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osmotic restraints on lettuce fruit germination.

12.2. Persistence and degradability

Potassium trihidrogen

<u>dioxalate</u>

Solubility in water 53170 mg/l (Campbell's solubility apparatus)

Rapidamente degradabile: 89% (consumo O2) in 20d (metodo equivalente o simile a EU C.5)

Degradazione nel suolo: fino al 73% in 30 giorni a 20 °C (evoluzione della CO2); Fonte bibliografica J. Geochem. Explor. 65(1):17-25 (1998).

oxalic acid

Solubility in water 100000 mg/l (Campbell's solubility apparatus).

Rapidamente degradabile: 89% (consumo O2) in 20d (metodo equivalente o simile a EU C.5)

Degradazione nel suolo: fino al 73% in 30 giorni a 20 °C (evoluzione della CO2); Fonte bibliografica J. Geochem. Explor. 65(1):17-25 (1998).

12.3. Bioaccumulative potential

POTASSIUM HYDROGEN

OXALATE

Partition coefficient: n--1,7 LogKow; in accordo con il metodo OECD Guideline 107

octanol/water

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OXALIC ACID

Partition coefficient: noctanol/water

-1,7 LogKow; in accordo con il metodo OECD Guideline 107

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.

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

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

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

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

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Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisarion (Annex XIV REACH)

None

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

Substances subject to the Rotterdam Convention:

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

Chemical safety assessment has been processed as per section 3.2.

SECTION 16. Other information

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

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

H302 Harmful if swallowed.

H302+H312 Harmful if swallowed or in contact with skin.

H312 Harmful in contact with skin. H318 Causes serious eye damage.

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

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- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 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
- 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.

Changes to previous review:

Revision n. 0 is the first version of this SDS.

Revision n. 1 modifies sections 1, 4, 8, 11, 12, 15, 16.