

**IDEAL WORK****IDEAL-SKIN**

Revision nr. 1

Dated 29/05/2019

Printed on August 28, 2019

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Safety Data Sheet

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

1.1. Product identifier

Code: IDEAL-SKIN
Product name

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use**1.3 Details of the supplier of the safety data sheet**

Company name IDEAL WORK SRL
Address Via Kennedy, 52
Place and country 31030 Vallà di Riese Pio X (TV)
Italy
tel. +39 0423 /4535
fax +39 0423 /748429

e-mail address for a competent person,
responsible for the safety data sheet

sicurezza@idealwork.it

1.4 Emergency telephone number

For information in an emergency

Poison center:
National Poisons Information Service (Birmingham Unit) City Hospital
Dudley Rd Birmingham
Telephone: +44 121 507 4123
Fax: +44 121 507 55 88
Emergency telephone: 844 892 0111

SECTION 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.
Hazard classification and indication:

2.2. Label elements

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

Hazard pictograms: --

Signal words: --

Hazard statements:

EUH210 Safety data sheet available on request.
EUH208 Contains: Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)
May produce an allergic reaction.

Precautionary statements: --

VOC (Directive 2004/42/EC) :

Primers.

VOC given in g/litre of product in a ready-to-use condition : 16,57

Limit value: 30,00

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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)
2-butoxyethanol		
CAS 111-76-2	$1 \leq x < 1,5$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		
INDEX 603-014-00-0		
Reg. no. 01-2119475108-36		
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)		
CAS 55965-84-9	$0 \leq x < 0,0015$	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 611-341-5		
INDEX 613-167-00-5		

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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



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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).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. 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:

ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

2-butoxyethanol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	98	20	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
Predicted no-effect concentration - PNEC						
Normal value in fresh water				8,8	mg/l	
Normal value in marine water				0,88	mg/l	
Normal value for fresh water sediment				34,6	mg/kg	
Normal value for marine water sediment				3,46	mg/kg	
Normal value for water, intermittent release				9,1	mg/l	
Normal value of STP microorganisms				463	mg/l	



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Normal value for the food chain (secondary poisoning)	20	mg/kg						
Normal value for the terrestrial compartment	2,33	mg/kg						
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers		Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg/d		6,3 mg/kg/d				
Inhalation	426 mg/m ³		147 mg/m ³	59 mg/m ³	246 mg/m ³	1091 mg/m ³		98 mg/m ³
Skin		89 mg/kg/d		75 mg/kg/d		89 mg/kg/d		125 mg/kg/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.

2-butoxyethanol

The substance can be absorbed through the skin.

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.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374). Materials suitable also for direct and prolonged contact (Recommendations: protection factor 6, corresponding to > 480 minutes of permeation time according to EN 374): butyl rubber - 0.7 mm thickness

Due to the large variety of types, the manufacturers' instructions for use should be observed.

Additional information: the information is based on the tests of the suppliers of the substance, on bibliographic data and on the information of the manufacturers of gloves or is obtained, by analogy, from substances of similar composition. It must be borne in mind that, due to various factors (eg the temperature), the duration of use of a protective glove against chemical agents can in practice be considerably less than the permeation time detected by the tests.

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. Filter for gas / vapor of organic compounds (Boiling point > 65 ° C, eg EN 14387, Type A).

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	dense liquid	
Colour	Not available	
Odour	characteristic	
Odour threshold	negligible	
pH	8	
Melting point / freezing point	Not applicable	Reason for missing data:the mixture is not solid
Initial boiling point	Not available	
Boiling range	Not applicable	
Flash point	> 60 °C	
Evaporation rate	negligible	
Flammability (solid, gas)	not applicable	Reason for missing data:due to the nature of the product
Lower inflammability limit	Not applicable	Reason for missing data:There are no flammable substances
Upper inflammability limit	Not applicable	Reason for missing data:There are no flammable substances
Lower explosive limit	Not applicable	Reason for missing data:There are no substances that present an explosion hazard
Upper explosive limit	Not applicable	Reason for missing data:There are no substances that present an explosion hazard
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,2	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not applicable	Reason for missing data:There are no self-igniting substances
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	The product does not present an explosion hazard	
Oxidising properties	The product is not reactive (non-oxidizing).	

9.2. Other information

Total solids (250°C / 482°F)	0,11 %
VOC (Directive 2004/42/EC) :	1,38 % - 16,57 g/litre
VOC (volatile carbon) :	0,84 % - 10,09 g/litre

SECTION 10. Stability and reactivity**10.1. Reactivity**

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

2-butoxyethanol

Reactions with light metals with formation of hydrogen. Reactions with strong oxidizing agents.



10.4. Conditions to avoid

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

10.5. Incompatible materials

2-butoxyethanol
Strong oxidizers

10.6. Hazardous decomposition products

Information not available

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

2-butoxyethanol

Moderate toxicity after single ingestion. Inhalation of a highly saturated vapor-air mixture is not an acute risk. The European Union (EU) has classified the substance as "harmful by inhalation". Practically non-toxic for a single skin contact. The European Union (EU) has classified this substance as 'harmful' due to dermal exposure.

LD50 mouse (intraperitoneal): 1,174 mg / kg

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:

> 20 mg/l

LD50 (Oral) of the mixture:

>2000 mg/kg

LD50 (Dermal) of the mixture:

>2000 mg/kg

2-butoxyethanol

LD50 (Oral) 1300 mg / kg Guinea pig. Method similar to OECD 401

LD50 (Dermal) > 2000 mg / kg Guinea Pig. OECD 402

LC50 (Inhalation) > 400 ppm / 7h Guinea pig. Test comparable to OECD 403, The steam has been tested

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

LD50 (Oral) 100 mg / kg Conversion to acute estimation of point toxicity

LD50 (Dermal) 300 mg / kg Conversion to point estimate of acute toxicity

LC50 (Inhalation) 0.31 mg / l / 4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

2-butoxyethanol

Irritant in contact with skin.

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

Causes burns.



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SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

2-butoxyethanol

Irritating by eye contact. Test conducted on rabbit (OECD 405)

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

Risk of serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

2-butoxyethanol

Species: guinea pig

Method: OECD 406

Results: non-sensitizing

Skin sensitization

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

Route of exposure: dermal

Species: guinea pig

Result: may cause sensitization in contact with the skin.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

2-butoxyethanol

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not genotoxic in mammalian cell cultures. The substance showed no mutagenic effects in mammalian experiments.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

2-butoxyethanol

Indications of a possible carcinogenic effect in animal tests. A concrete proof of a high carcinogenic risk on humans has not yet been taken. IARC 3 group (not classifiable as human cancerogenicity).

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

2-butoxyethanol

It damages blood cells. Due to the species-specific mechanism of action, these effects are not expected in humans.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

2-butoxyethanol

Evaluation of aquatic toxicity:

The product is probably not harmful to aquatic organisms. Based on data from long-term chronic toxicity studies, the product, with high probability, is not



harmful to aquatic organisms. The correct introduction of low concentrations in a biological purification plant should not compromise the degradation activity of the activated sludge.

Toxicity to fish:

LC50 (96 h) 1,474 mg / l, *Oncorhynchus mykiss* (OECD - guideline 203, static)

Nominal concentration. Indication from bibliography.

Aquatic invertebrates:

EC50 (48 h) 1,550 mg / l, *Daphnia magna* (OECD - guideline 202, part 1, static)

Nominal concentration. Indication from bibliography.

Aquatic plants:

EC50 (72 h) 1.840 mg / l (growth rate), *Pseudokirchneriella subcapitata* (OECD - guideline 201, static)

Nominal concentration. Indication from bibliography.

Microorganisms / Effects on activated sludge:

Limit toxic concentration (16 h) > 700 mg / l, *Pseudomonas putida* (DIN 38412 part 8, static)

Nominal concentration. Indication from bibliography.

Chronic toxicity on fish:

NOEC (21 d) > 100 mg / l, *Brachydanio rerio* (OECD 204 Guideline, semi-static)

Nominal concentration. Indication from bibliography. Only a limit concentration (LIMIT-Test) was examined.

Chronic toxicity for aquatic invertebrates:

NOEC (21 d) 100 mg / l, *Daphnia magna* (OECD - guideline 211, semi-static)

Nominal concentration. Indication from bibliography.

Assessment of terrestrial toxicity: No data available on terrestrial toxicity.

2-butoxyethanol

LC50 - for Fish

1474 mg/l/96h *Oncorhynchus mykiss*. OECD 203, static

EC50 - for Crustacea

1550 mg/l/48h *Daphnia magna*. OECD 202, static

EC50 - for Algae / Aquatic Plants

1840 mg/l/72h Tasso di crescita. *Pseudokirchneriella subcapitata*. OECD 201, static

Chronic NOEC for Fish

> 100 mg/l *Brachydanio rerio*. OECD 204, semistatic. 21 d

Chronic NOEC for Crustacea

100 mg/l *Daphnia magna*. OECD 211, semistatic. 21 d

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

LC50 - for Fish

0,58 mg/l/96h *Danio rerio*

EC50 - for Crustacea

1,02 mg/l/48h *Daphnia magna*

EC50 - for Algae / Aquatic Plants

0,379 mg/l/72h Species: *Pseudokirchneriella subcapitata*. Method: OECD TG 201

EC10 for Algae / Aquatic Plants

0,188 mg/l/72h Species: *Pseudokirchneriella subcapitata*. Method: OECD TG 201

12.2. Persistence and degradability

2-butoxyethanol

Evaluation of biodegradability and elimination (H₂O):

Easily biodegradable (according to OECD criteria).

Disposal considerations:

90% CO₂ formation of the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69 / EEC, C.4-C) (aerobic, activated sludge)

2-butoxyethanol

Rapidly degradable

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

Solubility in water

3000 g/l @ 20°C. Source ECHA

NOT rapidly degradable

12.3. Bioaccumulative potential

2-butoxyethanol

Partition coefficient: n-octanol/water

0.81 Log Kow The data refers to the undissociated form of the substance

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

Partition coefficient: n-octanol/water

0,75 Log Kow Source: ECHA



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12.4. Mobility in soil

2-butoxyethanol

Partition coefficient: soil/water 0,45 Calculated

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. Neat product residues should be considered special non-hazardous waste.

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

None

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 authorisation (Annex XIV REACH)

None



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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC) :

Primers.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances
2-butoxyethanol

SECTION 16. Other information

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

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH210	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



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- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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. Κανονισμός (ΕΕ) 2018/669 (XI Atp. CLP)
 15. Κανονισμός (ΕΕ) 2018/1480 (XIII 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.