

SL200625REV0 - CHANTECLAIR LAVATRICE IGIENIZZANTE 50 ML

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

Code: SL200625REV0
Product name: CHANTECLAIR LAVATRICE IGIENIZZANTE 50 ML

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

Intended use: Liquid cleaner for washing machine

Identified Uses	Industrial	Professional	Consumer
Liquid cleaner for washing machine	-	-	✓
Uses Advised Against			

Don't use for different uses from the recommended one

1.3. Details of the supplier of the safety data sheet

Name: REALCHIMICA S.R.L.
Full address: Via Monte Santo, 37
District and Country: 20831 Seregno (MB)
ITALIA
Tel. 036226851
Fax 0362222267

e-mail address of the competent person responsible for the Safety Data Sheet: sds@gruppodesa.com

1.4. Emergency telephone number

For urgent inquiries refer to: CAV Milano Niguarda 0266101029 (H24; 7 giorni su 7)

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:
Eye irritation, category 2 H319 Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P102 Keep out of reach of children.
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.
P337+P313 If eye irritation persists: Get medical advice / attention.
P101 If medical advice is needed, have product container or label at hand.

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcoli, C12-18, etossilati		
CAS 68213-23-0	$5 \leq x < 7$	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 500-201-8		
INDEX -		
Reg. no. Exempt / Polymer		
Sodium Dodecylbenzensulfonate		
CAS 68411-30-3	$5 \leq x < 7$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 270-115-0		
INDEX -		
Reg. no. *		
Sodium Laureth Sulfate		

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CAS 68891-38-3 $1 \leq x < 3$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

EC 500-234-8

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Reg. no. 01-2119488639-16-0024

Laurylamine Dipropylenediamine

CAS 2372-82-9 $0,02 \leq x < 0,03$ Acute Tox. 3 H301, STOT RE 2 H373, Skin Corr. 1A H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC 219-145-8

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SODIUM PYRITHIONE

CAS 3811-73-2 $0 \leq x < 0,01$ Acute Tox. 4 H302+H312+H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=10

EC 223-296-5

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DIMETHYL FORMAMIDE

CAS 68-12-2 $0 \leq x < 0,01$ Flam. Liq. 3 H226, Repr. 1B H360D, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC 200-679-5

INDEX 616-001-00-X

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

Sodium Dodecylbenzensulfonate

Questo prodotto è una miscela ionica.

Allo scopo della classificazione ed etichettatura, i sali pericolosi potenzialmente presenti nella miscela sulla base del calcolo sono quelli sopra elencati.

* Non provvisto di numero di registrazione poichè esentato dalla registrazione REACH in base alle disposizioni dell'Allegato V (punto 4) del Regolamento 1907/2006 - REACH

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

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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

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:

DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

Sodium Dodecylbenzensulfonate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,268	mg/l
Normal value in marine water	0,0268	mg/l
Normal value for fresh water sediment	8,1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			NPI	0,85 mg/kg				
Inhalation			3 mg/m3	3 mg/m3			12 mg/m3	12 mg/m3
Skin			NPI	85 mg/kg			NPI	170 mg/kg

Sodium Laureth Sulfate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	5,45	mg/kg
Normal value for marine water sediment	0,545	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	15 mg/kg				
Inhalation			VND	3 mg/m3			VND	175 mg/m3
Skin			VND	85 mg/kg			VND	2750 mg/kg

DIMETHYL FORMAMIDE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	15	5	30	10	SKIN
MAK	DEU	15	5	30	10	SKIN
VLEP	FRA	15	5	30	10	SKIN
VLEP	ITA	15	5	30	10	SKIN
WEL	GBR	15	5	30	10	SKIN
OEL	EU	15	5	30	10	SKIN
TLV-ACGIH			5			SKIN

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

For normal use:

Recommended Gloves in NITRILE, LATTICE or similar (waterproof) Minimum thickness 0.1 mm, which may vary depending on the conditions of use, but such as to guarantee a minimum protection of 1 hour.

For prolonged handling of the product:

Recommended Category III work gloves (ref. Standard EN 374).

Minimum permeation time: 14 minutes (METHANOL 99%), Maximum permeation time: 480 minutes (SODIUM HYDROXIDE 50%).

SKIN PROTECTION:

For normal use:

No special protections are required for normal use.

For prolonged handling of the product:

No special protections are required for prolonged use.

EYE PROTECTION:

For normal use:

No special protections are required for normal use.

For prolonged handling of the product:

Use protective glasses with side flaps (EN 166)

RESPIRATORY PROTECTION:

For normal use:

No special protections are required for normal use.

For prolonged handling of the product:

No special protections are required for prolonged use.

ENVIRONMENTAL EXPOSURE CHECKS.

See also section 6 and section 13.

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SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	viscous liquid
Colour	white
Odour	characteristic
Odour threshold	Not applicable (perfumed product).
pH	8,3-8,7
Melting point / freezing point	Not relevant for product safety and classification.
Initial boiling point	Not relevant for product safety and classification.
Boiling range	Not relevant for product safety and classification.
Flash point	Not applicable (non-flammable).
Evaporation rate	Not relevant for product safety and classification.
Flammability (solid, gas)	Not applicable (non-flammable).
Lower inflammability limit	Not applicable (non-flammable).
Upper inflammability limit	Not applicable (non-flammable).
Lower explosive limit	Not applicable (non-explosive).
Upper explosive limit	Not applicable (non-explosive).
Vapour pressure	Not relevant for product safety and classification.
Vapour density	Not relevant for product safety and classification.
Relative density	1,026 g/ml
Solubility	soluble / miscible in water
Partition coefficient: n-octanol/water	Not applicable for the mixture.
Auto-ignition temperature	Non-auto.
Decomposition temperature	Not relevant for product safety and classification.
Viscosity	200-500 mPas.s
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

VOC (Directive 2010/75/EC) : 0,03 % - 0,26 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.

DIMETHYL FORMAMIDE

Decomposes on contact with: naked flames,overheated surfaces.Possible formation of toxic fumes.

10.2. Chemical stability

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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.

DIMETHYL FORMAMIDE

Risk of explosion on contact with: alkaline metals, strong oxidising agents, bromine, chlorine, triethyl aluminium, alkaline nitrides. May react violently with: reducing agents, halogens, nitrates, metal oxides, non-metal oxides, halogenated hydrocarbons. Forms explosive mixtures with: hot air.

10.4. Conditions to avoid

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

DIMETHYL FORMAMIDE

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

DIMETHYL FORMAMIDE

Incompatible with: oxidising substances, halogenated hydrocarbons, inorganic nitrates, triethylaluminium, bromine, chlorine, iron.

10.6. Hazardous decomposition products

DIMETHYL FORMAMIDE

May develop: nitric oxide, dimethylamine, hydrogen cyanide.

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

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Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:
Not classified (no significant component)
ATE (Oral) of the mixture:
>2000 mg/kg
ATE (Dermal) of the mixture:
Not classified (no significant component)

Alcoli, C12-18, etossilati

LD50 (Oral) > 1000 mg/kg

Sodium Dodecylbenzensulfonate

LD50 (Oral) 1080 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg ratto

Sodium Laureth Sulfate

LD50 (Oral) 4100 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg ratto

DIMETHYL FORMAMIDE

LD50 (Oral) 2800 mg/kg Rat

LC50 (Inhalation) > 5,9 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information**12.1. Toxicity**

Laurylamine Dipropylenediamine

LC50 - for Fish 0,68 mg/l/96h

Chronic NOEC for Crustacea 0,024 mg/l

SODIUM PYRITHIONE

LC50 - for Fish 0,0073 mg/l/96h

EC50 - for Crustacea 0,022 mg/l/48h

Alcoli, C12-18, etossilati

LC50 - for Fish > 1 mg/l/96h Ittiotossicità

EC50 - for Crustacea > 1 mg/l/48h Invertebrati acquatici

Sodium Dodecylbenzensulfonate

EC10 for Crustacea 1,69 mg/l/48h invertebrati, brachionus calyciflorus

Chronic NOEC for Fish 1 mg/l pesce, lepomis macrochirus

Sodium Laureth Sulfate

LC50 - for Fish 7,1 mg/l/96h Pesci, Danio rerio

EC50 - for Crustacea 7,2 mg/l/48h Invertebrati, Daphnia magna

12.2. Persistence and degradability

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The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Evaluation of potential biaccumulo not be expected accumulation in organisms. The product was not tested. The indications are derived from substances / products contained in the formulation.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

The product does not contain substances listed in Regulation 1005/2009 / EC on substances that deplete the ozone layer.

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)

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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

Product

Point 3 - 40

Contained substance

Point 72 DIMETHYL
FORMAMIDE

Substances in Candidate List (Art. 59 REACH)

DIMETHYL FORMAMIDE

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:

Flam. Liq. 3	Flammable liquid, category 3
Repr. 1B	Reproductive toxicity, category 1B
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H360D	May damage the unborn child.
H301	Toxic if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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
- 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. 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.

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The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 11 / 12 / 15.