

Safety data sheet

In compliance with Annex II of EU regulation 2015/830 (REACH)

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

1.1. Product identifier

Code: **DM71A**
Name: **DS WC PINO**
UFI Code: **UFI: ENNM-10JP-E00F-W2HT**

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

Description/Use **Toilet descaler**

Identified uses	Industrial uses	Professional uses	Consumer uses
TOILET DETERGENT	✓	✓	✓
Uses advised against			
NOT RECOMMENDED FOR ANY OTHER USE			

1.3. Details of the supplier of the safety data sheet

Distributed by:
Company name: **ALLEGRINI SPA**
Address: **VICOLO SALVO D'ACQUISTO, 2**
Place and Country: **24050 GRASSOBBIO (BG) Italy**
Tel.: **+39 035 4242111**
e-mail: **msds@allegrini.com**

1.4. Emergency telephone number

Allegrini SpA : Tel. +39 035 4242111 Lun. - Ven. 8.00 - 17.00 GMT +1

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product thus requires a safety data sheet that complies with the provisions of Regulation (EU) 2015/830.

DS WC PINO

Any additional information concerning the risks for health and/or the environment is given in sections 11 and 12 of this sheet.

Classification and hazard statements:

Skin irritation, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
STOT-single exposure, category 3	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, Chronic Hazard, Category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words:



Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor.
P264	Wash the body parts that have come in contact with the product thoroughly after handling

Contains: Ammina grassa etossilata
ACIDO CLORIDRICO

Contains (Reg. EC 648/2004): < 5% non-ionic surfactants, perfumes.

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	x = Conc. %	Classification pursuant to Reg. (EC) 1272/2008 (CLP)
ACIDO CLORIDRICO		
CAS 7647-01-0	$9 \leq x < 10,5$	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
CE 231-595-7		
INDEX 017-002-01-X		
Nr. Reg. 01-2119484862-27-XXXX		
Ammina grassa etossilata		
CAS 25307-17-9	$1 \leq x < 1,5$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=1
CE 246-807-3		
INDEX -		
Nr. Reg. 01-2119510876-35		
2,2'-(C16-18(numeri pari,C18 insaturo) alchilimmino) dietanolo		
CAS 1218787-32-6	$0,4 \leq x < 0,45$	Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=1
CE 620-540-6		
INDEX -		
Nr. Reg. 01-2119510877-33		
(Z)-Ottadec-9-enilamina, etossilata (polimero)		
CAS 26635-93-8	$0,15 \leq x < 0,2$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=1
CE		
INDEX -		

Refer to Section 16 for the complete text regarding hazard statements (H).

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Rinse immediately and thoroughly with water, keeping eyelids raised, for at least 30/60minutes. Get medical advice/attention immediately.

SKIN: Remove contaminated clothing. Shower immediately. Get medical advice/attention immediately.

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

INHALATION: Immediately call a doctor. Bring the subject to the open air, away from the place of the accident. If the subject stops breathing, administer artificial respiration. Take appropriate precautions for the rescuer.

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 MEDIA:

Use traditional extinguishing media: carbon dioxide, foam, dust and water fog.

UNSUITABLE EXTINGUISHING MEDIA:

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.

EQUIPMENT

Normal firefighting clothing i.e. open circuit positive pressure compressed air breathing apparatus (EN 137), fire kit (EN 469), gloves (EN 659) and boots (HO specification A29 and A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if there is no danger.

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 a specific container. Evaluate the compatibility of the container to be used by checking section 10. Absorb the rest 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

Ensure an adequate grounding system for systems and people. Do not get in eyes or on skin. Do not inhale any dust

vapour or fog. Do not eat, drink or smoke when using this product. Wash hands after use. Avoid release of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product only in the original container. Store in a well-ventilated place, away from ignition sources. Keep the containers tightly closed. Store the product in clearly labelled containers. Avoid overheating. Avoid violent shocks. 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

Legislative Reference:

RCP TLV

ACGIH TLVs and BEIs –
Appendix H

ACIDO CLORIDRICO

Exposure threshold limit

Type	Status	TWA/8h		STEL/15min		Remarks/ Observations
		mg/m3	ppm	mg/m3	ppm	
RCP TLV		8	5	15	10	

Ammina grassa etossilata

Predicted No Effect Concentration - PNEC

Reference value for water, periodic emission	5	mg/l
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Health - Derived No-Effect Level - DNEL/DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Local, acute	Systemic, acute	Local, chronic	Systemic, chronic	Local, acute	Systemic, acute	Local chronic	Systemic, chronic
Oral				0,179 mg/kg bw/d				
Inhalation				0.621 mg/m3				1.76 mg/m3
Dermal				0,179 mg/kg bw/d				0,25 mg/kg bw/d

2,2'-(C16-18(numeri pari, C18 insaturo) alchilimmino) dietanolo

Predicted No Effect Concentration - PNEC

Reference value in fresh water	0.000214	mg/l
Reference value in sea water	0.000021	mg/l
Reference value for fresh water sediment	1,692	mg/kg
Reference value for sea water sediment	0,1692	mg/kg
Reference value for water, periodic emission	5	mg/l
Reference value for the terrestrial compartment	1,5	mg/kg

Health - Derived No-Effect Level - DNEL/DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Local, acute	Systemic, acute	Local, chronic	Systemic, chronic		Local, acute	Systemic acute	Local chronic

Oral	0,214 mg/kg bw/d	
Inhalation	0.745 mg/m ³	2.112 mg/m ³
Dermal	0,214 mg/kg bw/d	0,3 mg/kg bw/d

Key:

(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.

For the selection of personal protective equipment, if necessary, ask your chemical suppliers 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

When handling the product, it is recommended to wear chemical resistant gloves (standard EN 374: PVC, PE, neoprene, nitrile, Viton, not natural rubber). Gloves with protection factor 6 are recommended: permeation time > 480 minutes, minimum thickness 0.3 mm. Replace the gloves if there are signs of wear, cracks or internal contamination.

In the event of preparations, 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 II professional long-sleeved overalls and safety footwear (please refer to Directive 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing. In case of prolonged contact use protective clothing impermeable to this material: lab coats, aprons or full overalls (type EN 340-EN 13034).

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for one or more of the substances present in the product, it is advisable to wear 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 (see standard EN 137) or external air-intake breathing apparatus (see standard EN 138). For the 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

DS WC PINO

Physical state	gelatinous liquid	
Colour	green	
Odour	pine	
Odour threshold	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
pH	1	
Melting point/freezing point	Not available	
Boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	
Evaporation rate	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
Flammability (solid, gas)	Not available	
Lower flammability limit	Not available	
Upper flammability limit	Not available	
Lower flammability limit	Not available	
Upper flammability limit	Not available	
Vapour pressure	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
Vapour density	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
Relative density	1,03 1,3	
Solubility(ies)	solubility(ies) in water	
Partition coefficient (n-octanol/water)	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
Viscosity	Not available	Reason for lack of data: Non determined as considered not relevant for the product characterisation.
Explosive properties	Not available	
Oxidising properties	Not available	

9.2. Other information

Information not available

SECTION 10. Stability and reactivity
10.1. Reactivity

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

10.2. Chemical stability

The product is stable under normal use and storage conditions.

DS WC PINO**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, follow the usual precautions against chemicals.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products

Information not available.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**Metabolism, kinetics, mechanism of action and other information

Information not available.

Information on likely exposure routes

Information not available.

Delayed and immediate effects and 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) the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
Not classified (no significant component).

Ammina grassa etossilata
LD50 (Oral) > 300 mg/kg RAT

2,2'-(C16-18(numeri pari, C18 insaturo) alchilimmino)
dietanolo LD50 (Skin) > 300 mg/kg RAT

(Z)-Ottadec-9-enilamina, etossilata (polimero)
LD50 (Oral) > 300 mg/kg RAT

SKIN IRRITATION/CORROSION

Corrosive to skin.

Classification according to experimental pH value.

SERIOUS EYE DAMAGE/IRRITATION

Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the criteria for this hazard class

CARCINOGENICITY

Does not meet the criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the criteria for this hazard class

STOT-SINGLE EXPOSURE

May cause respiratory irritation.

STOT-REPEATED EXPOSURE

Does not meet the criteria for this hazard class

ASPIRATION HAZARD

Does not meet the criteria for this hazard class

SECTION 12. Ecological information

The product is hazardous to the environment and the aquatic environment, with long lasting effects for the aquatic environment.

12.1. Toxicity

Ammina grassa etossilata

LC50 - Fish

> 0,1 mg/l/96h FISH

EC50 - Crustaceans

> 0,01 mg/l/48h DAPHNIA

EC50 - Algae / Aquatic plants

> 0,01 mg/l/72h ALGAE

2, 2'-(C16-18(numeri pari, C18 insaturo) alchilimmino) dietanolo

LC50 - Fish	> 0,1 mg/l/96h FISH
EC50 - Crustaceans	> 0,01 mg/l/48h DAPHNIA
EC50 - Algae / Aquatic plants	> 0,01 mg/l/72h ALGAE
EC10 Algae / Aquatic plants	> 0,01 mg/l/72h ALGAE

(Z)-Ottadec-9-enilamina, etossilata (polimero)

NOEC Chronic, Fish	< 0,01 mg/l ≥ 0,01 mg/l; FISH
NOEC Chronic, Crustaceans	< 0,01 mg/l ≥ 0,01 mg/l; ALGAE
NOEC Chronic, Algae / Aquatic plants	< 0,01 mg/l ≥ 0,01 mg/l; ALGAE

ACIDO CLORIDRICO

LC50 - Fish	3,25 mg/l/96h (freshwater fish)
EC50 - Algae / Aquatic Plants	4,82 mg/l/72h (Daphnia magna)

12.2. Persistence and degradability

Ammina grassa etossilata
rapidly degradable
>60 %, 28 day

2, 2'-(C16-18(numeri pari, C18 insaturo) alchilimmino) dietanolo
Rapidly degradable

(Z)-Ottadec-9-enilamina, etossilata (polimero)
Rapidly degradable
>60 %, 28 day

ACIDO CLORIDRICO
NOT rapidly degradable.

HCl is an inorganic substance that is not biologically degradable

12.3. Bioaccumulative potential

Information not available.

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 entrusted to an authorised waste management company, in compliance with national and local regulations.

The transport of waste may be subject to ADR .

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN Number

ADR / RID, IMDG, 1760
IATA:

14.2. UN proper shipping name

ADR / RID: LIQUIDO CORROSIVO, N.A.S. (ACIDO CLORIDRICO; Ammina grassa etossilata)

IMDG: CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID; Fatty amine ethoxylated)

IATA: CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID; Fatty amine ethoxylated)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, II
IATA:

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited quantities: 1 L	Tunnel restriction code: (E)
IMDG:	Special provision: - EMS: F-A, S-B	Limited quantities: 1 L Maximum quantity: 30 L	Packaging instructions: 855
IATA:	Cargo: Pass.: Specific instructions:	Maximum quantity: 1 L A3, A803	Packaging instructions: 851

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/EU None

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

Product
Point 3-40

Substances on the Candidate List (Article 59 of REACH).

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

Substances subject to authorisation (Annex XIV REACH).

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health checks.

Workers exposed to this chemical agent dangerous to human health must undergo health surveillance in accordance with the provisions of Article 41 of (Italian) Legislative Decree 81 of 9 April 2008, unless the health and safety risk to the worker is considered irrelevant, according to the provisions of Article 224, Paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been prepared for the following substances:

ACIDO CLORIDRICO

SECTION 16. Other information

Text regarding the hazard statements (H) mentioned in sections 2-3 of the safety data sheet:

Met. Corr. 1	Substances and mixtures corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	STOT-single exposure, category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, Chronic Toxicity, category 3
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	May cause long lasting harmful effects to aquatic life.

KEY:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Half maximal effective concentration on the test population
- EC NUMBER: Identifier within the ESIS - European chemical substances information system
- CLP: Regulation (EC) No. 1272/2008
- DNEL: Derived No-Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: IATA Dangerous Goods Regulations
- IC50: Half-maximal inhibitory concentration of the test population
- IMDG: International Maritime Dangerous Goods Code
- 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 toxic pursuant to REACH Regulation
- Certified email: Predicted environmental Concentration
- PEL: Predicted exposure limit
- PNEC Predicted No Effect Concentration
- REACH: Regulation (EC) No. 1907/2006
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- TLV: Exposure threshold limit
- TLV CEILING: Threshold limit value – ceiling limit (TLV-C): absolute exposure limit that should not be exceeded at any time.
- TWA STEL: Threshold limit value - short-term exposure limit

- TWA: Threshold limit value – time-weighted average
- VOC: Volatile organic compound
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (Germany).

GENERAL LITERATURE:

1. Regulation (EC) no. 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) no. 1272/2008 of the European Parliament (CLP)
3. Commission Regulation (EC) No 790/2009 (I Atp. CLP)
4. Commission Regulation (EU) No 2015/830
5. Commission Regulation (EU) No 286/2011 (II Atp. CLP)
6. Commission Regulation (EU) No 618/2012 (III Atp. CLP)
7. Commission Regulation (EU) No 487/2013 (IV Atp. CLP)
8. Commission Regulation (EU) No 944/2013 (V Atp. CLP)
9. Commission Regulation (EU) No 605/2014 (VI Atp. CLP)
10. Commission Regulation (EU) 2015/1221 (VII Atp. CLP)
11. Commission Regulation (EU) 2016/918 (VIII Atp. CLP)
12. Commission Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Commission Regulation (EU) 2017/776 (X Atp. CLP)
14. Commission Regulation (EU) 2018/669 (XI Atp. CLP)
15. Commission Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Commission 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 of chemical substances – Italian Ministry of Health and Italian National Institute of Health.

Note for the user:

The information contained in this data sheet is based on our available knowledge at the last revision date. The user must ensure that the information is suitable and complete in relation to the specific use of the product.

This document must not be interpreted as a guarantee of any specific ownership of the product.

Since the use of the product does not fall under our direct control, it is the user's responsibility to observe the hygiene and safety laws and regulations in force. No liability is accepted for improper use.

Provide appropriate training for personnel handling chemicals.

Product classification is based on calculation methods given in Annex 1 of the CLP Regulation, unless otherwise stated in sections 11 and 12.

The methods for assessment of chemical and physical properties are stated in section 9.

Data modified compared to the previous version

The following sections have been modified:

08.