



Safety Data Sheet

According to Annex II to REACH
Regulation (EU) 2020/878 and to Annex II to UK REACH

Revision: Nr. 3. Dated: 15/05/2024.

Replaced revision: 2 (Printed on: 26/11/2021)

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

1.1. Product identifier

Code: 14357 HBS

Product name POWER BLOND BLUE

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

Intended use hair bleaching powder (cosmetic use)

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

For urgent inquiries refer to

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AZIENDA OSPEDALIERA UNIVERSITARIA INTEGRATA (AOUI) DI VERONA SEDE DI BORGO TRENTO piazzale Aristide Stefani 1, 37126 Verona

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 2020/878.

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:

Oxidising liquid, category 3 H272 May intensify fire; oxidiser. Acute toxicity, category 4 H302 Harmful if swallowed.

Skin corrosion, category 1B H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

Specific target organ toxicity

single exposure, category 3 H335 May cause respiratory irritation.

Respiratory sensitization, category 1 H334 May cause allergy or asthma symptoms

or breathing difficulties if inhaled.

Skin sensitization, category 1 H317 May cause an allergic skin reaction.

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:

H272 May intensify fire; oxidiser. **H302** Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.
P220 Keep away from clothing and other combustible materials.
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): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor / . . .

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P264 Wash . . . thoroughly after handling.

Contains: DISODIUM METASILICATE

DIPOTASSIUM PEROXODISULPHATE DIAMMONIUM PEROXODISULPHATE

SODIUM PERSULFATE

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%. The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

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

DIPOTASSIUM PEROXODISULPHATE

INDEX 016-061-00-1 $25 \le x < 50$ Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319,

Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334,

Skin Sens. 1 H317 EC 231-781-8 LD50 Oral: >700 mg/kg

CAS 7727-21-1

REACH Reg. 01-2119495676-19-0000

DIAMMONIUM PEROXODISULPHATE

INDEX 016-060-00-6 $20 \le x < 25$ Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319,

Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334,

Skin Sens. 1 H317 LD50 Oral: 495 mg/kg

EC 231-786-5 CAS 7727-54-0

REACH Reg. 01-2119495973-19-0000

DISODIUM METASILICATE

INDEX 014-010-00-8 20 ≤ x < 25 Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318,

STOT SE 3 H335

EC 229-912-9 CAS 6834-92-0

REACH Reg. 01-2119449811-37-xxxx

SODIUM PERSULFATE

INDEX - $5 \le x < 10$ Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319,

Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334,

Skin Sens. 1 H317 LD50 Oral: 895 mg/kg

EC 231-892-1 CAS 7775-27-1

REACH Reg. 01-2119495975-15-0000

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

4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

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.

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. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

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). Do not use a stream of water as it may scatter or spread fire.

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. 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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. 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.

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.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Store in cool (below 30 °C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic material as paper towel, wood, clothes, etc. which could induce spontaneous combustion. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

ESP España Límites de exposición profesional para agentes químicos en España 2021

TLV-ACGIH ACGIH 2022

DIAMMONIUM PEROXODISULPHATE

Threshold Limit Value

Tipo	Stato	TWA/8h		STEL/15min		Note/Osservazioni
\ // A	FOR	mg/m3	ppm	mg/m3	ppm	
VLA	ESP	0,1				

TLV-ACGIH 0,1

SODIUM PERSULFATE Threshold Limit Value

Tipo	Stato	TWA/8h		STEL/15min		Note/Osservazioni
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		0,1				

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

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.

SKIN PROTECTION

Wear category II 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.

FYF PROTECTION

Wear airtight protective 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

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

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

Value

Information

9. Physical and chemical properties

Properties

9.1. Information on basic physical and chemical properties

Toperties	value	momation
Appearance	powder	
Colour	light blue	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	9,6-10,6	
Kinematic viscosity	not available	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	not available	
Relative vapour density	not available	
Particle characteristics	not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes Information not available

9.2.2. Other safety characteristics

Information not available

10. Stability and reactivity

10.1. Reactivity

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

DISODIUM METASILICATE

The aqueous solutions act as: strong bases.

SODIUM PERSULFATE

Decomposes at temperatures above 145°C/293°F.

With water it reduces to bisulphate with the development of oygen.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

DISODIUM METASILICATE

May react dangerously with: fluorine, lithium.

SODIUM PERSULFATE

Reacts violently with: combustible substances, reducing substances. Fire hazard. Possibility of explosion.

10.4. Conditions to avoid

Avoid environmental dust build-up.

10.5. Incompatible materials

DISODIUM METASILICATE

The aqueous solution is incompatible with: acids,organic anhydrides,acrilates,alcohols,aldehydes,alkyl oxides,cresoles,caprolactam,epichlorohydrin,ethylene dichloride,glycols,isocyanates,ketones,nitrates,phenoles,vinyl acetate.

10.6. Hazardous decomposition products

SODIUM PERSULFATE

May develop: sulphur oxides, oxygen.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

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

ATE (Oral) of the mixture: 899,50 mg/kg

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

DIPOTASSIUM PEROXODISULPHATE

 LD50 (Dermal):
 > 2000 mg/kg (ratto)

 LD50 (Oral):
 > 700 mg/kg (ratto)

 LC50 (Inhalation mists/powders):
 > 2,95 mg/l (ratto)

DIAMMONIUM PEROXODISULPHATE

LD50 (Dermal): 2000 mg/kg Rat LD50 (Oral): 495 mg/kg Rat LC50 (Inhalation mists/powders): 2,95 mg/l/4h Rat **DISODIUM METASILICATE**

LD50 (Dermal): > 5000 mg/kg bw (Ratto)

LD50 (Oral): 600 mg/kg Rat LC50 (Inhalation mists/powders): > 2,06 g/m3 (Ratto)

SODIUM PERSULFATE

LD50 (Dermal): > 10000 mg/kg Rabbit LD50 (Oral): 895 mg/kg Rat LC50 (Inhalation mists/powders): 5,1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin.

Sensitising for the respiratory system.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

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

May cause respiratory irritation.

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.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

DIPOTASSIUM PEROXODISULPHATE

LC50 - for Fish > 76,3 mg/l/96h (trota iridea) EC50 - for Crustacea > 120 mg/l/48h (daphnia)

EC50 - for Algae / Aquatic Plants > 83,7 mg/l/72h (pseudokirchneriella subcapitata)

DISODIUM METASILICATE

LC50 - for Fish 1108 mg/l/96h (Brachydanio rerio) EC50 - for Crustacea 1700 mg/l/48h (Daphnia magna)

EC50 - for Algae / Aquatic Plants 207 mg/l/72h (Schenedesmus subspicatus)

SODIUM PERSULFATE

LC50 - for Fish 76,3 mg/l/96h EC50 - for Crustacea 83,7 mg/l/48h

DIAMMONIUM PEROXODISULPHATE

LC50 - for Fish 76,3 mg/l/96h (trota iridea)
EC50 - for Crustacea 120 mg/l/48h (Daphnia magna)

12.2. Persistence and degradability

DISODIUM METASILICATE

Solubility in water 210000 mg/l

Degradability: information not available

Rapidly degradable

SODIUM PERSULFATE

Solubility in water > 10000 mg/l

Degradability: information not available

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DIAMMONIUM PEROXODISULPHATE

Solubility in water > 10000 mg/l

Degradability: information not available

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available.

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

14. Transport information

14.1. UN number or ID number ADR / RID, IMDG, IATA: 3085

14.2. UN proper shipping name

ADR / RID:

OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium persulfate, sodium metasilicate)

IMDG:

OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium persulfate, sodium metasilicate)

OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium persulfate, sodium metasilicate)

OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium persulfate, sodium metasilicate)

14.3. Transport hazard class(es)

ADR / RID: Class: 5.1 Label: 5.1 (8)





IMDG: Class: 5.1 Label: 5.1 (8)

5.1



IATA: Class: 5.1 Label: 5.1 (8)

5.1



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 58 Limited Quantities: 5 kg Tunnel restriction code: (E)

Special provision: 274

IMDG: EMS: F-A, S-Q Limited Quantities: 5 kg

Maximum quantity: 100 Kg Packaging instructions: 563 IATA: Cargo: Packaging instructions: 559

Passengers: Maximum quantity: 25 Kg

Special provision:

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant.

Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: P8

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

Contained substance

Point 75

Point 65 DIAMMONIUM PEROXODISULPHATE REACH Reg.: 01-2119495973-19-0000

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

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.

Other information 16.

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

Ox. Liq. 3 Oxidising liquid, category 3 Ox. Sol. 3 Oxidising solid, category 3

Met. Corr. 1 Substance or mixture corrosive to metals, category 1 Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1B Skin corrosion, category 1B Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2 STOT SE 3

Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1 Skin Sens. 1 Skin sensitization, category 1 H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII 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.

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 / 05 / 09 / 11 / 14 / 15 / 16.