

SAFETY DATA SHEET

In compliance with Regulations 1272/2008 (CLP), 1907/2006 (REACH), 648/2004 and 878/2020

Internal code: 00120SM-r1

Review nr. 06 del 26/06/21

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

1.1. Product identifier

Trade name: **BLEACH MARINE 1L**
Commercial code: 00120SM-r1
UFI: WAA0-P0GY-G00H-1SCP

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

Use: Textile bleaching. Surface detergent.
SU21: Consumer uses.
Uses advised against: All uses not specifically listed on the label on the product packaging.

1.3. Details of the supplier of the safety data sheet

UT Europe srl - Via Scarsellini 119 - 16149 Genova, Italia
Tel:0106467352 info@uteurope.it





1.4. Emergency telephone number

Bergamo - Ospedali Riuniti di Bergamo – Tel. 800 883300
Firenze - Azienda Ospedaliera Careggi – Tel. 055 7947819
Foggia - Azienda Osp. Univ. Foggia – Tel. 800 183459
Milano - Ospedale Niguarda Ca' Grande - Tel. 02 66101029
Napoli - Ospedali Riuniti Cardarelli - Tel. 081 5453333
Pavia - Fondazione Salvatore Maugeri – Tel. 0382 24444
Roma - Policlinico Agostino Gemelli - Tel. 06 3054343
Roma - Ospedale Pediatrico Bambino Gesù – Tel. 06 68593726
Roma - Policlinico Umberto I – Tel. 06 49978000
Verona - Azienda Ospedaliera Integrata Verona – Tel. 800 011858

SECTION 2: Hazards identification

2.1. Classification of the mixture.

EC regulation criteria 1272/2008 (CLP):

-  Warning, Met. Corr.1, May be corrosive to metals.
-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2, Causes serious eye irritation.
-  Warning, Aquatic Acute 1, Very toxic to aquatic life.
Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects: No other hazards.

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2.2. Label elements.

EC regulation criteria 1272/2008 (CLP):

DANGER PICTOGRAMS



Warning

Hazard statements:

- H290 May be corrosive to metals.**
- H315 Causes skin irritation.**
- H319 Causes serious eye irritation.**
- H400 Very toxic to aquatic life.**
- H411 Toxic to aquatic life with long lasting effects.**

Precautionary statements:

- P102 Keep out of reach of children.
- P234 Keep only in original packaging.
- P280 Wear protective gloves/eye protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional information on hazards:

- EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).**

Hazardous components to be reported on the label:

Sodium Hypochlorite

Ingredients according to EC Regulation no. 648/2004:

Under 5%: Chlorine-based bleaching agents.

2.3. Other hazards.

- This mixture does not meet the PBT criteria of REACH regulation, annex XIII.
- This mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances.

N.A.

3.2. Mixtures.

Hazardous components within the meaning of CLP Regulation and corresponding classification:

< 3% - Sodium Hypochlorite

CAS: 7681-52-9 EC: 231-668-3 N. Reach 01-2119488154-34



2.16/1 Met. Corr. 1 H290






3.2/1B Skin Corr. 1B H314

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-  3.3/1 Eye Dam. 1 H318
-  4.1/A1 Aquatic Acute 1 H400 (M factor=10)
-  4.1/C1 Aquatic Chronic 1 H410

EUH031

The full wording of the hazard phrases is given in section 16.

SECTION 4: First aid measures

4.1. Descriptions of first aid measures.

In case of skin contact:

Rinse exposed area with water. If irritation persists, consult a physician.

In case of eyes contact:

Flush eyes thoroughly with lukewarm water for 15 minutes. If irritation persists, consult a physician.

In case of Ingestion:

Do not induce vomiting. Seek medical advice immediately, showing the safety data sheet. Administer anti-foaming agents (dimethicone). Contact a poison control center.

In case of Inhalation:

Ventilate the area. Immediately remove the patient from the contaminated premises and made to rest in a well ventilated area. If you feel unwell seek medical advice.

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

Inhalation: irritation of the respiratory tract, cough.

Ingestion: nausea, vomiting, diarrhea (with possible imbalances hydroelectric ingestion of large quantities); sensation of pain against pharynx, stomach and abdomen. Possible respiratory failure by aspiration of foam from the airways (especially as a result of vomiting and ingestion of significant quantities).

Eye contact: May causes serious eye irritation / conjunctivitis.

Contact with skin: May cause skin irritation.

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

See section 4.1.

SECTION 5: Firefighting measures

Product is not flammable.

5.1. Extinguishing media.

Suitable extinguishing media

CO₂, water, or dry chemical.

Extinguishing media which must not be used for safety reasons

None in particular.

5.2. Special hazards arising from the substance or mixture

Hazards due to exposure in the event of fire

Avoid breathing products of combustion.

5.3. Advice for firefighters

General Information

Use suitable breathing apparatus. Collect extinguishing water. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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Equipment

Protective helmet with visor (EN443) Normal clothing for firefighting, such as an open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN 469), fireproof gloves (EN 659) and VV.FF footwear and boots. (EN15090)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stave off people not involved in the intervention of emergency. Avoid breathing vapors or mists. Keep away from sources of ignition. Do not carry out any intervention if this involves any personal risk. Wear personal protective equipment: safety glasses, gloves and protective clothing, and pay attention to the slipperiness of the contaminated areas.

6.2. Environmental precautions

Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

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. Disposal of contaminated material must be done in accordance with the provisions of section 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.

Store in closed, labeled containers. Avoid contact with eyes and skin. When using do not eat or drink. Provide accurate ventilation / exhaustion at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Normal storage conditions without particular incompatibilities.

7.3. Specific end use(s).

All of the uses expressly indicated on the label applied to the product packaging.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Hypochlorite, solution - CAS: 7681-52-9

EU - STEL: 0.5 mg/m³, 1.5 ppm - Notes: Ref. to Cl₂

DNEL Exposure Limit Values

Sodium Hypochlorite, solution - CAS: 7681-52-9

Worker Industry: 1.55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 1.55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 3.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 3.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 1.55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 0.26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 1.55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 3.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

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PNEC Exposure Limit Values

Sodium Hypochlorite, solution - CAS: 7681-52-9

Target: Fresh Water - Value: 0.00021 mg/l

Target: Marine water - Value: 0.000042 mg/l

Target: STP - Value: 4.69 mg/l

8.2. Exposure controls.

8.2.1. Engineering controls:

If there are no applicable exposure limit requirements or guidelines, général ventilation should be sufficient for most opérations.

8.2.2. Individual protection measures:

a) Eye/face protection: Use safety glasses (with side shields) should be consistent with EN 166:2001, EN172:1994, EN ISO 4007:2012.

b) Skin protection:

i) Hand protection: when handling the product use chemical resistant protective gloves compliant with standards (EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.

ii) Other protection: normal working clothes (EN ISO 13688:2013).

c) Respiratory protection: not necessary for normal use.

d) Thermal hazards: none.

8.2.3. Environmental exposure controls:

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Clear liquid
Colour	Straw yellow
Odour	Characteristic pungent odor
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	12,0 ± 1
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water (log value)	Not applicable - mixture
Vapour pressure	No data available
Density and/or relative density	1,060 ± 0,020 g/cm ³
Relative vapour density	No data available

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Particle characteristics

No data available

9.1. Information on basic physical and chemical properties

Explosive properties

Not explosive

Oxidizing properties

No oxidizing properties

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with reducing agents (or easily oxidizable substances) and acids.

10.2 Chemical stability

Quite stable in the recommended conditions of storage and handling. A slow and spontaneous decomposition with production of oxygen takes place.

10.3 Possibility of hazardous reactions

The hypochlorite reacts with strong acids to release toxic gases and with ammonium and derivatives to produce toxic or irritant gases such as chloramines or hydrazine.

10.4 Conditions to avoid

Direct exposure to sunlight, heat. However, follow the usual precautions with regard to the products chemical.

10.5 Incompatible materials

Keep away from reducing or relatively readily oxidisable substances (such as amines, ammonium salts, metal, combustible material, hydrogen peroxide) and acid.

10.6 Hazardous decompositions products

When it is heated the decomposition is accentuated with the production of dangerous gases and/or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects.

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

a) Acute toxicity

Not classified. Based on available data, the classification criteria are not met.

b) Skin corrosion/irritation

The product causes skin irritation.

c) Serious eye damage/eye irritation

The product causes serious eye irritation.

d) Sensitization

For skin sensitization: Based on available data, the classification criteria are not met.

For respiratory sensitization: Based on available data, the classification criteria are not met.

e) Mutagenicity

Based on available data, the classification criteria are not met.

f) Carcinogenicity

Based on available data, the classification criteria are not met.

g) Reproductive toxicity

Based on available data, the classification criteria are not met.

h) Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

i) Specific Target Organ Systemic Toxicity (Repeated Exposure)

Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

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j) Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Toxicological information on main components of the mixture:

Sodium Hypochlorite, solution - CAS: 7681-52-9

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

Test: LD50 - Route: Oral - Species: Rat > 1100 mg/kg - Notes: Ref. to Cl

Test: LC50 - Route: Inhalation - Species: Rat > 10.5 mg/l - Notes: Ref. to Cl

Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg - Notes: Ref. to Cl

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

Test: Skin Corrosive - Route: Skin Positive

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Test: Eye Corrosive - Route: Skin Positive

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Information on toxicological effects.

Adopt good working practices, so that the product is not released into the environment.

Sodium Hypochlorite, solution CAS: 7681-52-9

The product is classified: Aquatic Chronic 1 - H410; Aquatic Acute 1 - H400

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.06 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 0.032 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.141 mg/l - Duration h: 48

Endpoint: EC50 - Species: Crustaceans = 0.026 mg/l - Duration h: 48

12.2. Persistence and degradability.

N.A.

12.3. Bioaccumulative potential.

N.A.

12.4. Mobility in soil.

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Mobility in soil: Mobile

12.5. Results of PBT and vPvB assessment.

The components of the mixture does not meet the criteria vPvB and PBT.

12.6. Endocrine disrupting properties.

The product does not contain substances that have properties of interference with the endocrine system.

12.7. Other adverse effects.

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of the product:

The elimination of the product shall be in accordance with local and national regulations.

Disposal of uncleaned packages:

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

SECTION 14: Transport information

14.1 UN Number

Appropriate shipping name:

HYPOCHLORITE SOLUTION

Identification number of the substance: UN 1791

Class: 8

Classification code: C9

Hazard label: 8

Packing group: III

Danger indication number: 80

Dangerous for the environment

Limited quantities per transport unit (1.1.3.6 ADR / RID / ADN): transport category 3

Limited quantities per package unit (3.4 ADR / RID / ADN): 5 L

Exempt quantities (3.5 ADR / RID / ADN): E1

14.2 UN proper shipping name

Appropriate shipping name: HYPOCHLORITE SOLUTION

Identification number of the substance: UN 1791

Class: 8

Packing group: III

Hazard label: 8

EMS No: F-A, S-B.

Marine pollutant.

Limited quantities per unit of package (3.4 IMDG Code): 5 L

Exempt quantities (3.5 IMDG Code): E1

14.3 Transport hazard class(es)

Appropriate shipping name:

HYPOCHLORITE SOLUTION

Identification number of the substance: UN 1791

Class: 8

Hazard label: 8

Packing group: III

Packing instructions for passenger and cargo aircraft:

Packaging instructions / maximum net quantity per package: 852 / 5L



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Packaging instructions for limited quantities / maximum net quantity per package: Y841 / 1L

Packaging instructions for quantities exempt / maximum net quantity per package: E1

Packaging instructions for cargo plane / maximum net quantity per package: 856 / 60L

14.4 Packing Group

N.A.

14.5 Environmental hazards

Classified as Dangerous for the Environment.

14.6 Special Precautions for User

N.A.

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Environmental Pollutant

The product belongs to the packing group III. The exemption code for packaging in limited quantities is LQ7.

SECTION 15: Regulatory information

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

Seveso Category: Limit amount of dangerous substances referred to in Article 3 (10): 100 tonnes

Restrictions concerning the product or to substances according to Annex XVII Regulation (EC) 1907/2006: none

Candidate List substances (Article 59 REACH): none

Substances subject to authorization (Annex XIV REACH): none

15.2 Chemical Safety Assessment.

Sodium Hypochlorite

A Chemical Safety Assessment has been carried out for the substance.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification procedure
<i>Met. Corr. 1; H290</i>	<i>Expert judgment</i>
<i>Skin Irrit. 2; H315</i>	<i>Declassification with laboratory tests</i>
<i>Eye Irrit. 2; H319</i>	
<i>Aquatic Acute 1; H400</i>	<i>Calculation method</i>
<i>Aquatic Chronic 2; H411</i>	

Text of phrases referred to under heading 3:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

EUH031 Contact with acids liberates toxic gas

Revision:

Nr. 05 Issue date 04/09/2020 – New document: Compliance with regulations 830/2015.

Nr. 06 Issue date 26/06/2021 - Amendment of paragraphs 1, 2,15, 16. Compliance with regulations 878/2020.

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Abbreviations and acronyms

AISE: International Association for Soaps, Detergents and Maintenance Products
ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimat
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstract Service number
CAP: Centre AntiPoison
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)
CL50/LC50: Lethal Concentration 50
DL50/LD50: Lethal Dose 50
COD: Chemical Oxygen Demand
DNEL: Derived No Effect Level
EC50: half maximal Effective Concentration
ERC: Environment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative
n.a.: not applicable
n.d.: not available

LAW AND GENERAL BIBLIOGRAPHY

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2. Regulation (EC) 1272/2008 of the European Parliament (CLP).
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9. N.I. Sax - Dangerous properties of Industrial Materials - 7, 1989 Edition

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ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.