# Milton® Disinfecting Fluid

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name: Milton® Disinfecting fluid
UFI : UEP1-6142-900U-D6Y9

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

Biocidal product. Product-types 02 and 04.
Disinfection of nursery accessories (feeding bottles, teats, …) by immersion.
Disinfection of surfaces (floor, working surfaces, …) in domestic and healthcare sectors by wet wiping.
For professional and general public..
Type of formulation: soluble concentrate (SL)

Use descriptor system (REACH): No data available

### 1.3. Details of the supplier of the safety data sheet

Registered company name: Milton International
Address: 9 rue Marcel Sembat, 44100 Nantes - France
Phone: +33 (0)5 49 68 15 15
Fax.: +33 (0)5 49 66 16 41
E-mail: fds@labo-rivadis.fr
https://www.milton-tm.com/en

### 1.4. Emergency telephone number

| Country | Phone number | Website |
|---|---|---|
| Austria | 112 | - |
| Belgium | + 32 070 245 245 | http://www.centreantipoisons.be/ |
| Bulgaria | +359 2 9154 409 | http://www.pirogov.bg |
| Croatia | (+385 1) 23-48-342 | - |
| Cyprus | 112 | - |
| Czech Republic | +420 224 919 293, +420 224 915 402 | www.tis-cz.cz |
| Denmark | +45 82 12 12 12 | - |
| Estonia | 16662 / (+372) 626 93 90 | - |
| Finland | 112 | - |
| France | +33 (0)1 45 42 59 59 | INRS / ORFILA http://www.centres-antipoison.net. |
| Germany | 112 | - |
| Greece | 112 | - |
| Hungary | +36 1 476 6464 / +36 80 201 199 | - |
| Iceland | 112 | - |
| Ireland | 01 809 2166 | - |
| Italy | 112 | - |
| Latvia | +371 67042473 | - |
| Liechtenstein | 112 | - |
| Lithuania | +370 5 236 20 52 / +370 687 53378 | http://www.tox.lt/ |
| Luxembourgs | 112 | - |
| Malta | 112 | - |
| Netherlands | (+31) 030-2748888 | - |
| Norway | (+42) 2259 1300 | - |
| Poland | 112 | - |
| Portugal | 0808 250 143 | - |
| Romania | 112 | - |
| Slovakia | (+421) 2 54 774 166 | - |
| Slovenia | 112 | - |
| Spain | + 34 91 562 04 20 | - |
| Sweden | 112 | - |
| Switzerland | 145 | - |
| United Kingdom | 111 | - |

## SECTION 2 – HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**In compliance with EC regulation No. 1272/2008 and its amendments.**

| | |
|---|---|
| **Corrosive to metals** | Category 1 (Met. Corr. 1, H290). |
| **Skin irritation** | Category 2 (Skin Irrit. 2, H315). |
| **Hazardous to the aquatic environment - Chronic hazard** | Category 3 (Aquatic Chronic 3, H412). |
| **Contact with acids** | Liberates toxic gas (EUH031). |

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

### 2.2. Label elements

Biocidal product. Product-types 02 and 04.

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazards pictograms:



SGH07

Signal word: WARNING

Hazard statements:

| | |
|---|---|
| **H290** | May be corrosive to metals. |
| **H315** | Causes skin irritation. |
| **H412** | Harmful to aquatic life with long lasting effects. |

Precautionary statements:

Professional users:

| | |
|---|---|
| **P234** | Keep only in original container. |
| **P273** | Avoid release to the environment. |
| **P280** | Wear protective gloves. |
| **P302+P352** | IF ON SKIN: Wash with plenty of water. |
| **P390** | Absorb spillage to prevent material damage. |
| **P501** | Dispose of contents and container in accordance with local, regional and national regulations. |

Non-professional users:

| | |
|---|---|
| **P101** | If medical advice is needed, have product container or label at hand. |
| **P102** | Keep out of reach of children. |
| **P234** | Keep only in original container. |
| **P273** | Avoid release to the environment. |
| **P302+P352** | IF ON SKIN: Wash with plenty of water. |
| **P390** | Absorb spillage to prevent material damage. |
| **P501** | Dispose of contents and container in accordance with local, regional and national regulations. |

Additional labelling:

| | |
|---|---|
| **EUH031** | Contact with acids liberates toxic gas. |
| **EUH206** | Warning! Do not use together with other products. May release dangerous gases (chlorine). |

### 2.3. Other hazards

The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) as defined by criteria of article 57 and as per article 59 of REACH (Regulation EC No.1907/2006) at concentration ≥ 0.1% - list published by the European CHemicals Agency (ECHA): (http://echa.europa.eu/fr/candidate-list-table).

The mixture does not contain any PBT or vPvB substances as defined in annex XIII of the REACH regulation EC No.1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable (mixture).

### 3.2. Mixtures
Composition:

| INDEX | CAS No. | EC No. | Hazardous ingredient(s) | Pictograms | Classification | % w/w |
|---|---|---|---|---|---|---|
| 017-011-00-1 | 7681-52-9 | 231-668-3 | Sodium hypochlorite | GHS 05<br>GHS 09 | H290*<br>H314 (1B)<br>H400 (M = 10*)<br>H411*<br>EUH031 | 2.00%** |

**According to supplier's SDS*
***Corresponds to 1.90% w/w active chlorine released from sodium hypochlorite*

Informations on ingredients: No data available
Other data: No data available

## SECTION 4 – FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing if the victim is unconscious.

### 4.1. Description of first aid measures

| | |
|---|---|
| **In the event of exposure by inhalation** | In the event of massive inhalation, remove the exposed person to fresh air. Keep warm and at rest. |
| **In the event of splashes or contact with eyes** | Wash thoroughly with soft, clean water holding the eyelids open.<br>If there is any redness, pain or visual impairment, consult an ophthalmologist. |
| **In the event of splashes or contact with skin** | Remove contaminated clothing and wash the skin thoroughly with soap and water.<br>Watch out for any remaining product between skin and clothing, watches, shoes, etc.<br>If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the victim transferred to hospital. |
| **In the event of swallowing** | Do not give the victim anything orally.<br>In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.<br>Keep at rest. Do not induce vomiting.<br>Seek medical attention immediately, showing the label. |

### 4.2. Most important symptoms and effects, both acute and delayed
No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed
Specific and immediate treatment: Treat symptomatically.
Information for the doctor: No data available.

## SECTION 5 – FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media
In case of fire, use extinguishing specifically adapted.

| | |
|---|---|
| **Suitable methods of extinction** | In the event of a fire, use:<br>- sprayed water or water mist<br>- foam<br>- dry powder<br>- carbon dioxide ($CO_2$)<br>Prevent the effluent of the fight against the fire from entering sewers or waterways. |
| **Unsuitable methods of extinction** | In the event of a fire, do not use:<br>- water jet |

### 5.2. Special hazards arising from the substance or mixture
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke.
In the event of a fire, the following may be formed:
- chlorine and chlorinated decomposition products

### 5.3. Advice for firefighters
No data available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures
Consult safety advice of sections 7 and 8.

| | |
|---|---|
| **For non-first aid worker** | Avoid any contact with the skin and eyes.<br>In the event of accidental release of a large quantity, evacuate all unnecessary personnel and allow intervention only by trained operators equipped with suitable personal protective equipment (See section 8). |
| **For first aid worker** | First aid workers will be equipped with suitable personal protective equipment (See section 8). |

### 6.2. Environmental precautions
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.

### 6.3. Methods and material for containment and cleaning up
If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.
Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections
Consult sections 8 and 13.

## SECTION 7 – HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling
Always wash hands after handling.
Remove and wash contaminated clothing before re-using.

| | |
|---|---|
| **Fire prevention** | Prevent access by unauthorised personnel. |
| **Recommended equipment and procedures** | For personal protection, see section 8.<br>Observe precautions stated on label and also industrial safety regulations.<br>Avoid skin and eye contact with this mixture.<br>For professionals: wear gloves. |
| **Prohibited equipment and procedures** | No smoking, eating or drinking in areas where the mixture is used. |

### 7.2. Conditions for safe storage, including any incompatibilities
Always keep in original packaging.
Keep the container tightly closed in a dry, well-ventilated place, protected from heat and direct sunlight.
Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)
No data available.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits:

Sodium hypochlorite is not listed (France (INRS - ED984: 2012) and UK HSE EH40).

In case of chlorine emission the occupational exposure limit for chlorine should be controled.*

| HAZARDOUS INGREDIENT(S) | CAS No. | LTEL 8 hr TWA ppm | LTEL 8 hr TWA mg/m3 | STEL (ppm) | STEL (mg/m³) | Notes |
|---|---|---|---|---|---|---|
| Chlorine | 7782-50-5 | - | - | 0.5 | 1.5 | France<br>United Kingdom<br>Romania |
| | | - | 0.7 | - | 1.5 | Poland |

| DNEL / DMEL | Oral | Inhalation | Dermal |
|---|---|---|---|
| Industry - Long Term - Local effects | - | 1.55 mg/m3 | 0.5% w/w |
| Industry - Long Term - Systemic effects | - | 1.55 mg/m3 | - |

| | | | |
|---|---|---|---|
| Industry - Short term - Local effects | - | 3.1 mg/m3 | - |
| Industry - Short term - Systemic effects | - | 3.1 mg/m3 | - |
| Consumer. - Long Term - Local effects | - | 1.55 mg/m3 | - |
| Consumer. - Long Term - Systemic effects | 0.26 mg/kg bw/day | 1.55 mg/m3 | - |
| Consumer. - Short term - Local effects | - | 3.1 mg/m3 | - |
| Consumer. - Short term - Systemic effects | - | 3.1 mg/m3 | - |

**According to supplier's SDS*

Biological limits*:

| Environment | PNEC |
|---|---|
| Aquatic compartment (including sediment) | 0.21 µg/L fresh water<br>0.042 µg/L marine water<br>0.26 µg/L intermittent releases<br>30 µg/L sewage treatment plant |
| Terrestrial compartment | - |
| Atmospheric compartment | - |

**According to supplier's SDS*

### 8.2. Exposure controls

| | |
|---|---|
| **Suitable technical inspections** | No data available. |
| **Personal protection measures, such as personal protective equipment** | Use personal protective equipment that is clean and has been properly maintained.<br>Store personal protective equipment in a clean place, away from the work area.<br>Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using.<br>Ensure that there is adequate ventilation, especially in confined areas. |
| **Eye / face protection** | Avoid contact with eyes. |
| **Hand protection** | Avoid skin contact.<br>For professionals: wear suitable protective gloves in the event of prolonged or repeated skin contact.<br>Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.<br>Gloves must be selected according to the application and duration of use at the workstation.<br>Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. |
| **Body protection** | Avoid skin contact.<br>Work clothing worn by personnel shall be laundered regularly.<br>After contact with the product, all parts of the body that have been soiled must be washed. |
| **Respiratory protection** | In the event of accidental release of a large quantity, recommended type of powered air-purifying respirator:<br>Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387. |
| **Thermal risks** | Not applicable. |

### 8.3. Exposure controls linked to environmental protection

No data available.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

General information:

| | |
|---|---|
| **Physical state** | Limpid liquid |
| **Odor** | Chlorinated odor |
| **Color** | Slightly yellow |

Important health, safety and environmental information:

| | |
|---|---|
| **pH (pure)** | 11.8 at 21°C |
| **Melting point/freezing point** | Not determined |
| **Boiling point/boiling range** | Around 110°C |
| **Flash point** | No flash point up to 110oC (EC A.9, ISO Standard 3679) |
| **Evaporation rate** | Not determined |
| **Flammability** | Not flammable |

| | |
|---|---|
| **Lower/upper flammability limits** | Not determined |
| **Lower/upper explosive limits** | Not determined |
| **Vapour pressure** | Not determined |
| **Vapour density** | Not determined |
| **Relative density** | 1.14 at 20.5°C |
| **Solubility** | Not determined |
| **Partition coefficient** | Not determined |
| **Auto-ignition temperature** | Not determined |
| **Decomposition temperature** | Not determined |
| **Viscosity** | 1.73 mPa*s at 20°C<br>1.22 mPa*s at 40°C |
| **Particle characteristics** | Not applicable |
| **Explosive properties** | Not explosive (expert statement) |
| **Oxidising properties** | Not oxidising (expert statement) |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

| | |
|---|---|
| **Explosives** | Not explosive (expert statement) |
| **Flammable gases** | Not applicable |
| **Aerosols** | Not applicable |
| **Oxidising gases** | Not applicable |
| **Gases under pressure** | Not applicable |
| **Flammable liquids** | Not flammable |
| **Flammable solids** | Not applicable |
| **Self-reactive substances and mixtures** | Not self-reactive |
| **Pyrophoric liquids** | Not pyrophoric |
| **Pyrophoric solids** | Not applicable |
| **Self-heating substances and mixtures** | Not applicable |
| **Self-heating substances and mixtures** | Not applicable |
| **Oxidising liquids** | Not oxidising (expert statement) |
| **Oxidizing solids** | Not applicable |
| **Organic peroxides** | Not applicable |
| **Corrosive to metals** | Classified in class 8 (corrosive material) according to the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, sub-section 37.4 and classified as Met. Corr. 1, H290 according to CLP |
| **Desensitised explosives** | Not applicable |

#### 9.2.2. Other safety characteristics

No data available.

## SECTION 10 – STABILITY AND REACTIVITY

### 10.1. Reactivity

Mixture which by chemical action can corrode and even destroy metals.
Contact with acids liberates toxic gas (chlorine).
May release dangerous gases (chlorine).

### 10.2. Chemical stability
This mixture is stable under the recommended handling and storage conditions in section 7.
Stability of the solution decreases with the action of heat, light and in the presence of some trace impurities.

### 10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas (chlorine).
Reacts with ammonia solutions and amines to form explosive compounds.
Can react violently if in contact with methanol.
Decomposition with evolution of oxygen is accelerated by light and heat and also by contact with many metals, particularly copper, nickel, iron and “monel”.
Oxidising agent; may assist combustion.
When exposed to high temperatures, the mixture can release hazardous decomposition products and fumes.
In the event of a fire, the following may be formed:
- chlorine and chlorinated decomposition products.

### 10.4. Conditions to avoid
Keep away from heat and direct sunlight.
Avoid contact with other chemicals.

### 10.5. Incompatible materials
Keep away from:
- acids
- ammonia and amines
- methanol
- metals (particularly copper, nickel, iron and “monel”)

### 10.6. Hazardous decomposition products
The thermal decomposition may release/form smoke and hazardous decomposition products:
- chlorine and chlorinated decomposition products.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No.1272/2008

Gas (chlorine) produced under fire or acidic conditions is toxic by inhalation.

11.1.1. Substances

HYPOCHLORITE DE SODIUM (CAS No.7681-52-9)

The following data are taken from Assessment Report "Active chlorine released from sodium hypochlorite", January 2017.

| | |
|---|---|
| **Acute toxicity** | Acute oral toxicity, rat: LD50 > 2 000 mg avCl/kg bw<br>Acute dermal toxicity, rat: LD50 > 2 0000 mg avCl/kg bw<br>Acute inhalation toxicity, rat: LD50 > 10.5 mg avCl/L |
| **Skin corrosion/skin irritation** | Causes severe skin burns. |
| **Serious damage to eyes/eye irritation** | Causes serious eye damage. |
| **Respiratory or skin sensitisation** | May be irritant to the respiratory tract.<br>Not skin sensitising. |
| **Germ cell mutagenicity** | No genotoxic potential. |
| **Carcinogenicity** | Not carcinogenic. |
| **Reproductive toxicant** | No evidence of any adverse effects on development or fertility. |
| **Specific target organ systemic toxicity - single exposure** | Not classified. |
| **Specific target organ systemic toxicity - repeated exposure** | Not classified. |
| **Aspiration hazard** | Not classified. |

11.1.2. Mixture

| | |
|---|---|
| **Acute toxicity** | No data available. |
| **Skin corrosion/skin irritation** | Skin irritant. (Skin irritation, Category 2, OECD No.404, rabbit). |
| **Serious damage to eyes/eye irritation** | Not irritant. (OECD No.405, rabbit). |
| **Respiratory or skin sensitisation** | No data available. |
| **Germ cell mutagenicity** | No data available. |

| | |
|---|---|
| **Carcinogenicity** | No data available. |
| **Reproductive toxicant** | No data available. |
| **Specific target organ systemic toxicity - single exposure** | No data available. |
| **Specific target organ systemic toxicity - repeated exposure** | No data available. |
| **Aspiration hazard** | No data available. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | No data available. |
| **Delayed and immediate effects as well as chronic effects from short and long-term exposure** | No data available. |
| **Interactive effects** | No data available. |
| **Absence of specific data** | No data available. |
| **Other information** | No data available. |

### 11.2 Information on other hazards
No data available.

## SECTION 12 – ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Substances

SODIUM HYPOCHLORITE (CAS No.7681-52-9)

The following data are taken from Assessment Report "Active chlorine released from sodium hypochlorite", January 2017.

Acute aquatic toxicity*:

| | |
|---|---|
| Fish (Oncorhynchus kisutch), sea water: | LC50 = 0.032 mg TRO/L (96 h) |
| Invertebrates (Ceriodaphnia dubia), fresh water: | EC50 = 0.035 mg active Cl/L (48 h) |
| Algae (Pseudokirchneriella subcapitata), fresh water: | ErC50 = 0.0365 mg avCl/L (72 h)<br>EbC50 = 0.0183 mg avCl/L (72 h) |
| Microorganisms, activated sludge: | EC50 = 77.1 mg avCl/L (3 h) |

M factor (Acute) = 10

Chronic aquatic toxicity*:

| | |
|---|---|
| Fish (Menidia peninsulae), sea water: | LOEC = 0.210 mg CPO/L (28 d)<br>NOEC = 0.040 mg CPO/L (28 d) |
| Invertebrates (Crassostrea virginica), sea water: | NOEC = 0.007 mg TRO/L (15-19 d) |
| Algae (Periphytic community), fresh water: | CI80 = 0.358 mg FAC/L (7 d)<br>CI50 = 0.023 mg FAC/L (7 d)<br>NOEC = 0.021 mg FAC/L (7 d) |

M factor (Chronic) = 1

** TRO: total residual oxidant, CPO: chlorine produced oxidant, FAC: free available chlorine*

#### 12.1.2. Mixtures

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).
(classification by conventional method).

### 12.2. Persistence and degradability

SODIUM HYPOCHLORITE (CAS No.7681-52-9) :

Sodium hypochlorite is a strong oxidiser. It will react with organic substances present in soil and sediments and degrades rapidly to chloride. Sodium hypochlorite is substantially removed in biological treatment processes.

### 12.3. Bioaccumulative potential

SODIUM HYPOCHLORITE (CAS No.7681-52-9) :

Sodium hypochlorite has low potential for bioaccumulation and decomposes in water (calculated log Kow = -3.42).

### 12.4. Mobility in soil

SODIUM HYPOCHLORITE (CAS No.7681-52-9) :

Sodium hypochlorite is mobile in soil and sediments.

### 12.5. Results of PBT and vPvB assessment

SODIUM HYPOCHLORITE (CAS No.7681-52-9) :

Not classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

Not considered to have endocrine disrupting properties.

### 12.7. Other adverse effects

SODIUM HYPOCHLORITE (CAS No.7681-52-9) :

Sodium hypochlorite is substantially removed in biological treatment processes. There is evidence of inhibition to the aerobic treatment process at a concentration (mg/l) of 0.05 mg/L.

## SECTION 13 – DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC, Decision 2014/955/EU and Directive (EU) 2015/1127.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

| | |
|---|---|
| **Waste** | Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.<br>Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.<br>Do not contaminate the ground or water with waste, do not dispose of waste into the environment. |
| **Soiled packaging** | Completely empty container. Keep label(s) on container.<br>Give to a certified disposal contractor. |
| **Local arrangements** | No data available |

## SECTION 14 – TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2019 - IMDG 2020 - ICAO/IATA 2020).

### 14.1 UN Number

1791

### 14.2. UN proper shipping name

UN1791 = HYPOCHLORITE SOLUTION

### 14.3. Transport hazard class(es)

**ADR/RID**

| | |
|---|---|
| **ADR/RID Class** | 8 |
| **ADR Classification Code** | C9 |
| **Special Provisions** | 521 |
| **Limited Quantities** | 5 L |
| **Excepted Quantities** | E1 |
| **Emergency Action Code** | 2X |
| **Mixed Packing Instructions for Packages** | P001 IBC02 LP01 R001 |
| **Special Packing Provisions for Packages** | B5 |
| **Mixed Packing Instructions for Packages** | MP19 |
| **Packing Instructions for Portable Tanks** | T4 |
| **Special Provisions for Portable Tanks** | TP2 TP24 |
| **Tank Code for Tanks** | L4BV(+) |

| | |
|---|---|
| **Special Provisions for Tanks** | TU42 TE11 |
| **Vehicle for Tank Carriage** | AT |
| **ADR Transport Category** | 3 |
| **Tunnel Restriction Code** | E |
| **Special Provisions for Carriage - Packages** | No data available |
| **Special Provisions for Carriage - Bulk** | No data available |
| **Special Provisions for Carriage - Loading, Unloading and Handling** | No data available |
| **Special Provisions for Carriage - Operation** | No data available |
| **ADR HIN** | 80 |

**IMDG**

| | |
|---|---|
| **IMDG Class** | 8 |
| **Special Provisions** | 521 |
| **Limited Quantities** | 5 L |
| **Excepted Quantities** | E1 |
| **Mixed Packing Instructions for Packages** | P001 IBC02 LP01 R001 |
| **Special Packing Provisions for Packages** | B5 |
| **Packing Instructions for Portable Tanks** | T4 |
| **Special Provisions for Portable Tanks** | TP2 TP24 |
| **IMDG EMS** | F-A, S-B |
| **Stowage and Handling** | Category B |
| **Segregation** | SGG8 SG20 |
| **Marine Pollutant** | No data available |

**ICAO/IATA**

| | |
|---|---|
| **IATA Proper Shipping Name** | HYPOCHLORITE SOLUTION |
| **Excepted Quantities** | E1 |
| **Passenger and Cargo Aircraft Limited Quantities Packing Instructions** | Y841 |
| **Passenger and Cargo Aircraft Limited Quantities Max net Qty** | 1L |
| **Passenger and Cargo Aircraft Packing Instructions** | 852 |
| **Passenger and Cargo Aircraft Max net Qty** | 5L |
| **Cargo Aircraft Packing Instructions** | 856 |
| **Cargo Aircraft Max net Qty** | 60L |
| **Special Provisions** | A3 A803 |
| **Emergency Response Guidebook (ERG) Code** | 8L |
| **Labels** | 8  |

### 14.4. Packing group

III

### 14.5. Environmental hazards

| ADR | IMDG | IATA |
|---|---|---|
| Dangerous for the environment: No | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-B | Dangerous for the environment: No |

### 14.6. Special precautions for user

Special precautions for user : Not known.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15 – REGULATORY INFORMATION

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

| | |
|---|---|
| **Classification and labelling information included in section 2** | The following regulations have been used:<br>- Regulation EC 1272/2008 and its adaptations. |
| **Container information** | No data available. |
| **Labelling of biocidal products** | Product-types 02 et 04.<br>Disinfection of nursery accessories (feeding bottles, teats, …) by immersion.<br>Disinfection of surfaces (floor, working surfaces, …) in domestic and healthcare sectors by wet wiping.<br>For professional and general public.<br>Active substance: active chlorine released from sodium hypochlorite (CAS No.7681-52-9): 1.90% w/w |
| **Particular provisions** | No data available. |
| **Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol)** | Not applicable |

### 15.2. Chemical safety assessment

No data available.

## SECTION 16 – OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Title for H and EUH indications mentioned in section 3:

| | |
|---|---|
| **H290** | May be corrosive to metals. |
| **H314** | Causes severe skin burns and eye damage. |
| **H400** | Very toxic to aquatic life. |
| **H411** | Toxic to aquatic life with long lasting effects. |
| **EUH031** | Contact with acids liberates toxic gas. |

### Abbreviations

| | |
|---|---|
| **GHS05** | Corrosive |
| **GHS07** | Exclamation mark. |
| **GHS09** | Environment |
| **ADR** | European agreement concerning the international carriage of dangerous goods by Road. |

| | |
|---|---|
| **IMDG** | International Maritime Dangerous Goods. |
| **IATA** | International Air Transport Association. |
| **ICAO** | International Civil Aviation Organisation |
| **RID** | Regulations concerning the International carriage of Dangerous goods by rail. |
| **PBT** | Persistent, Bioaccumulative and Toxic. |
| **vPvB** | Very Persistent and very Bioaccumulative. |
| **SVHC** | Substance of Very High Concern. |
| **avCl** | Available Chlorine. |
| **DNEL** | Derived No Effect Levels |
| **PNEC** | Predicted No Effect Concentration |