



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 – Annex II modified

Product: **CLEAN BOAT SPECIAL CARÈNE** Page: 1/18  
Date: **02/11/2016** Version: 4.00 Cancels and replaces: 3.70

## 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 - Product identifier

Trade name: **CLEAN BOAT SPECIAL CARÈNE**  
Usual chemical name: None.  
Reach number: Not concerned (mixture).

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

Use of the preparation: Cleaning agent.

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

Manufacturer: **CB Distribution** Phone: 33 (0)4 83 09 36 86  
68 boulevard Carnot E-mail: [cbdistribution@outlook.com](mailto:cbdistribution@outlook.com)  
F-06 400 Cannes – France  
Contact person SDS: **CB Distribution** Phone: 33 (0)4 83 09 36 86  
68 boulevard Carnot E-mail: [cbdistribution@outlook.com](mailto:cbdistribution@outlook.com)  
F-06 400 Cannes – France

### 1.4 - Emergency telephone number

Country	Official authority	Adress	Emergency tel. N°
BELGIUM	Centre Anti-Poisons/Antigifcentrum – Hôpital Militaire Reine Astrid - Bruxelles	<a href="http://www.centreantipoisons.be">www.centreantipoisons.be</a>	+32 70 245 245
FRANCE	Centre Antipoison et de Toxicovigilance de Paris – Hôpital Fernand Widal 24/24h	<a href="http://www.centres-antipoison.net">www.centres-antipoison.net</a>	+33 1 40 05 48 48
FRANCE	INRS – Institut National de Recherche et de Sécurité	<a href="http://www.inrs.fr">www.inrs.fr</a>	+33 1 45 42 59 59
GREECE	Poisons Information Centre – Children's Hospital "Aglaia. Kyriakou"	11527 Athens	+30 1 07 79 37 77
ITALIA	Centro Antiveleni Ospedale Niguarda (MI) 24 ore su 24	<a href="http://www.centroantiveleni.org">www.centroantiveleni.org</a>	+39 02 66 10 10 29
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum – Utrecht	<a href="http://www.vergiftigingen.info">www.vergiftigingen.info</a>	+31 3 02 74 88 88
SPAIN	Número telef. de emergencia 24 Horas Instituto Nacional de Toxicología		+34 9 00 18 15 66 +34 9 15 62 04 20
WORLDWIDE	World directory of poisons centres (Yellow Tox)	Website – WHO-OMS	<a href="http://www.who.int/ipcs/poisons/centre/directory/en">www.who.int/ipcs/poisons/centre/directory/en</a>

## 2 - HAZARDS IDENTIFICATION

The mixture is regulated in agreement with the European Regulation 1272/2008/EC, its adaptations and its annexes.

### 2.1 - Classification of the substance or mixture\*

#### Classification (Regulation (EC) No 1272/2008) and its adaptations

Corrosive to metals, Category 1, (Met. Corr. 1, H290).

Skin irritation, Category 2, (Skin Irrit. 2, H315).

Eye irritation, Category 2, (Eye Irrit. 2, H319).

Specific target organ toxicity - single exposure, Category 3, (STOT SE 3 RTI, H335).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

For the full text of the H-Statements mentioned in this Section, see Section 16

#### Principal hazards:

Harmful effects on health: Irritating to eyes, respiratory system and skin.  
Burns may occur several hours after the removal of the product. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.



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Effects on the environment: Not classified as dangerous for the environment.  
Acid product being able to induce a decrease of the pH. The pH will go up quickly after the dilution in ambient water until formation of a neutral product.

Physical and chemical hazards: Corrosive to metals. Contact with some metals may evolve flammable/explosive hydrogen gas.

**Classification system:** The classification corresponds to current EEC lists and is completed by indications extracted from specialized publications and indications supplied by the suppliers.

## 2.2 - Label elements

**Detergent mixture (see section 15).**

### Label according Regulation (EC) No 1272/2008 and its adaptations

Hazard Pictograms:



GHS05



GHS07

Signal word:

**DANGER**

Hazard statements and supplemental hazard information:

H290: May be corrosive to metals.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

Precautionary statements - Prevention:

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.  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

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.  
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary statements - Disposal

P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national/international regulation.

Component to be mentioned on the label:

Contains Hydrochloric acid (CAS 7647-01-0) < 25%.

### Label according Regulation (EC) No 648/2004 and its adaptations

5 – 10 % - Non-ionic surfactants.



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## 2.3 - Other hazards

### Physical-Chemical Properties:

May be corrosive to metals. In presence of humidity, contact with metals releases hydrogen. Contact with strong bases or alkaline materials may cause violent reactions or explosions. Contact with hypochlorites liberates chlorine gas. Exothermic reaction with water.

### Properties affecting health\*:

Burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm.

Following repeated contact with the skin, even diluted hydrochloric acid can cause skin damage (reddening, drying, fissures, dermatitis).

## 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 - Mixtures

**Chemical nature:** Acid in solution.

### Hazardous ingredients:

Substance (IUPAC)	CAS N°	EC N°	REACH N°	Index EC N°	% w/w
Hydrochloric acid	7647-01-0	231-595-7	01-2119484862-27	017-002-01-X	< 25 %

Substance (IUPAC)	CAS N°	OEL	Classification in accordance with Directive 67/548/CE	Classification in accordance with Regulation 1272/2008/CE	% w/w
Hydrochloric acid	7647-01-0	VLE France: 7.6 mg/m <sup>3</sup> or 5 ppm	C; R34 Xi; R37	Met. Corr. 1 – H290: 0,1% ≤ C < 10% Skin Corr. 1B – H314: C ≥ 25% Skin Irrit. 2 – H315: 10% ≤ C < 25% Eye Irrit. 2 – H319: 10% ≤ C < 25% STOT SE 3 – H335: C ≥ 10%	< 25 %

For the full text of the hazard class(es), R and H phrases mentioned in this Section, see Section 16.

### Complementary data:

The mixture does not contain any other dangerous substance at a concentration higher than 1%.

The mixture composition is shown for health, safety and environmental use and is not intended to form any part of a specification.

### List of substances extremely alarming candidates with the procedure of authorization:

No substance contained in this mixture is prohibited nor controlled.

## 4 - FIRST AID MEASURES

### 4.1 - Description of first aid measures\*

#### General advice:



It is advised to cover open skin wounds when in use.

Take off immediately all contaminated clothing, including shoes.

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Inhalation:

Rinse nose and mouth with water.

Remove the subject from the contaminated zone and bring it to the fresh air.

Seek medical attention immediately if symptoms occur.



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**Skin contact:** Remove contaminated clothing and shoes.  
Flush contaminated skin with plenty of water.  
Contact a doctor if skin irritation appears.  
Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact:** Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).  
Eyelids should be held away from the eyeball to ensure thorough rinsing.  
Remove contact lenses, if present and easy to do.  
In all the cases, consult an ophthalmologist, even in the absence of apparent damage.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person.  
Rinse the mouth with water. Remove dentures if any.  
Seek immediate medical attention.

**Protection of the first aid responders:** The first-aid responders will have to take precautions to avoid the exposure and to carry protection equipment.  
If the exposure is likely to exceed the limit of professional exposure, in a well ventilated place, use a respiratory apparatus; in a confined place, use an apparatus with air adduction.

## 4.2 - Most important symptoms and effects, both acute and delayed

**General advice\*:** The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

**Inhalation:** Irritating to the respiratory tract.  
Intense irritation. Cough and difficulty in breathing.  
Repeated or prolonged exposure may cause: nose bleeds. Risk of pulmonary oedema. Respiratory failure. Chronic bronchitis.

**Skin contact:** Causes skin irritation.  
Prolonged and repeated contacts can cause: reddening, drying, fissures, dermatitis.

**Eye contact:** Severely irritating to eyes.  
Symptoms may include: burning sensation, redness, pain, eyes watering.

**Ingestion:** May cause burns to mouth and throat. In case of ingestion: gastrointestinal irritation, abdominal pain, nausea, vomiting, diarrhea.

## 4.3 - Indication of any immediate medical attention and special treatment needed

**Medical information:** In case of splashing into the eyes and face, treat eyes first.  
Acid burns have to be treated immediately, as it may otherwise cause badly curing wounds.

## 5 - FIREFIGHTING MEASURES

### 5.1 - Extinguishing media

Suitable extinguishing media: Use water spray, foam, dry powder, carbon dioxide (CO<sub>2</sub>).  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet.

### 5.2 - Special hazards arising from the substance or mixture

**Special exposure hazard in fire:** In the presence of water, reacts with most metals to form flammable hydrogen gas - Risk of explosion.

**Decomposition products:** See section 10.

### 5.3 - Advice for firefighters

**Required special equipment:** Fire-protective clothing and self-contained breathing apparatus.



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**Additional indications\*:** For more information, refer to section 8: " Exposure controls - Personal protection ".  
No action shall be taken involving any personal risk or without suitable training.  
Evacuate non-essential staff away from fumes into a well-ventilated area.  
Use water spray to cool fire-exposed containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 - Personal precautions, protective equipment and emergency procedures

**General Information\*:**



Handle in accordance with good industrial hygiene and safety practice.  
No action shall be taken involving any personal risk or without suitable training.  
Evacuate the danger area, observe emergency procedures.  
No smoking in area. Remove all sources of ignition.  
Ventilate area of leak or spill.  
Do not touch or walk through spilled material.  
At major accidental discharge contact local safety authorities.

**Advice for non-emergency personnel:** Keep unnecessary and unprotected personnel from entering.

Avoid all unnecessary exposure.  
Avoid contact with skin and eyes.  
Do not breathe gas / vapours / fumes / spray.  
Immediately contact emergency personnel / Consult an expert.

**Advice for emergency responders:** Wear appropriate respirator when ventilation is inadequate.  
Put on appropriate personal protective equipment (see Section 8).  
Evacuate personnel to safe areas.

Shut off leaks, if possible without personal risks.  
Keep away from incompatible materials and products.  
Prevent further leakage or spillage if safe to do so.

**Personal precautions:**

Remove immediately soaked or soiled clothing.  
Wash contaminated clothing thoroughly with water before removing it, or wear gloves.  
Wash clothing before reuse.  
Clean shoes thoroughly before reuse.  
Refer to Section 4 of SDS for first aid measures.

### 6.2 - Environmental precautions

Prevent further leakage or spillage if safe to do so.  
Prevent entry into waterways, sewers, basements or confined areas.  
Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  
Collect spillage.

### 6.3 - Methods and material for containment and cleaning up\*

**Methods for Containment:**

Place damaged packing (leak on top) to stop the flow.  
Prevent further leakage or spillage if safe to do so.  
Move containers from spill area.

**Methods for cleaning up:**

Place the damaged container in a bigger labelled container.  
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, kieselguhr, vermiculite).  
Recover the product in a salvage container suitably labelled and acid proof.  
Require corrosion-resistant pumps.

**Recovery:**

**Measures after leaking/spreading:** Observe possible material restrictions (see sections 7.2 and 10.5).



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Neutralization: For small amounts: Dilute and wash away with large amounts of water.  
For large amounts: Neutralize with alkaline solution of soda ash (Sodium carbonate, Na<sub>2</sub>CO<sub>3</sub>) or lime (Calcium oxide, CaO). Treat the washings as a hazardous waste.

**Other information:** Materials to avoid: Concentrated acids are strongly corrosive to most metals.  
Do not discharge into drains/surface waters/groundwater.

## 6.4 - Reference to other sections

Personal protective equipment: See section 8.  
Waste disposal: See section 13.

## 7 - HANDLING AND STORAGE

### 7.1 - Precautions for safe handling

**Technical measures:** Provide water supplies, eyewash stations and safety showers in the vicinity.  
For personal protection see section 8.  
Ensure an extraction or a general ventilation of the room in order to reduce the fog and/or vapour concentrations.  
Keep away from incompatible product.  
Use only materials resistant to acids.

**Fire and explosion protection:** Normal measures for preventive fire protection.

**Precautions to be taken\*:** Keep away from high temperatures and humidity.  
Handle in accordance with good industrial hygiene and safety practice.

Wear personal protective equipment.  
Avoid any direct contact with eyes and skin.  
Do not swallow.

**Other cautions\*:** Do not breathe gas, vapours, fume or spray.  
In case of dilution, add the product in water, never the reverse (risk of projections).

Preferably transfer by pump or gravity.  
Slowly open the container to release the gas.  
Do not mix with incompatible materials (see list in section 10).

**Hygiene practice\*:** Quickly remove material from eyes, skin, and clothing.  
When using do not eat, drink or smoke.  
Keep away from food, drink and animal feeding stuffs.

### 7.2 - Conditions for safe storage, including any incompatibilities

**Technical measures:** Provide tight electrical equipment well protected against corrosion. Notify operators of nearby water intakes. Store containers onto a drip tray, bund or any other suitable secondary containment system. Personnel should be advised of potential hazards. Ensure an extraction or a general ventilation of the room in order to reduce the fog and/or vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Storage conditions:

**Recommended:** Store in a fresh, dry and well ventilated place.  
Keep containers hermetically sealed.  
Keep away from heat and direct sunlight.

**Unrecommended:** See section 10.

**Incompatible matters:** See detailed list of the incompatible matters, in section 10: "Stability - reactivity".

#### Packing materials:

**Recommended:** Specific plastics (PVC - PE), glass, polyester laminate, lined steel, stainless steel 316L, ebonite coated steel.





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Not Recommended: Do not store in metallic or unlined metal containers.  
See detailed list of the incompatible matters, in section 10: "Stability - reactivity".

## 7.3 - Specific end use(s)

No particular or specific use of the mixture is known of the supplier to date.

## 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 - Control parameters

#### Occupational exposure limits (Europeans and French):

Substance	N° CAS	Values
Hydrochloric acid	7647-01-0	VLE France: 7.6 mg/m <sup>3</sup> or 5 ppm (INRS)

Periodically controls of atmosphere must be carried out.  
A prolonged medical supervision can be indicated.

#### Other data:

	Inhalation		Dermal		Oral	
	Long term	Short term	Long term	Short term	Long term	Short term
<b>Hydrochloric Acid (CAS 7647-01-0): INRS Toxicological Sheet n° 13</b>						
<b>DNEL</b>	<b>Workers</b>					
<b>Systemic effects</b>						
<b>Local effects</b>	8 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>				

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

PNEC	Fresh water	Marine water	Intermittent release	Sewage treatment plant	Fresh water sediment	Marine water sediment	Soil
<b>Hydrochloric Acid (CAS 7647-01-0)</b>	0.036 mg/L	0.036 mg/L	0.045 mg/L	0.036 mg/L	-	-	-

This sheet is based on the current valid lists for occupational exposure limit values. The DNELs and PNECs values are derived from the chemical safety assessment conducted for REACH.

Occupational exposure limits and DNELs are health-based but they are not necessarily set in the same way. The primary duty is to comply with risk management measures which enable to limit exposures as much as possible and to be in line with exposure reference levels

### 8.2 - Exposure controls

#### Technical measures:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

Provide water supplies, eyewash stations and safety showers in the vicinity.  
Periodically controls of atmosphere must be carried out.

#### Personal protective equipment:

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Wash hands before breaks and immediately after handling the product.

Respiratory protection:

Use respiratory equipment if the OEL is exceeded.

Recommended Filter Types: A. B. P2.

Hand protection:

Protective gloves complying with EN374.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

Request information on glove permeation properties from the glove supplier. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Suitable material: Rubber, PVC, Neoprene

Full contact:

Matter: Butyl rubber

Glove thickness: 0.3 mm

Penetration time: 480 min

Splash contact:

Matter: Nitrile rubber

Glove thickness: 0.2 mm

Penetration time: 30 min

Eye protection:

Wear tightly fitting safety goggles conforming to EN166.

Skin protection:

Wear effective clothing protective against the chemicals according to standard EN368.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental exposure controls:** See section 6.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

**General indications:**

Physical state: at 20°C.

Appearance: Liquid.

Colour: Colourless.

Odour: Pungent.

Odour threshold: 1 - 5 ppm.





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## Important health, safety and environmental information

pH at 20°C: Strong Acid.  
Melting point (°C): - 52 °C (Hydrochloric Acid 30%).  
Freezing point (°C): No data available.  
Initial boiling point (°C): > 90°C (Hydrochloric Acid 30%).  
Flash point (°C): No data available.  
Evaporation rate: No data available.  
Flammability (solid, gas): No data available.  
Flammability (Explosive) limits: No data available.  
Vapour pressure (hPa) at 20°C: No data available.  
Vapour density (air=1): No data available.  
Relative density (g/cm<sup>3</sup> at 20°C): 1.2 g/cm<sup>3</sup>.  
Solubility in water: Miscible in all proportion.  
Partition coefficient: n-octanol/water: No data available.  
Auto-ignition temperature (°C): No data available.  
Decomposition temperature (°C): No data available.  
Viscosity (mPa.s) at 20°C: 1.9 mPa.s (Hydrochloric Acid 30%).  
Explosive properties: Product is not explosive. However, formation of explosive air/gas mixtures is possible.  
Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.  
Oxidizing properties: Not oxidizing according to EEC criteria.

## 9.2 - Other information

No other data available.

## 10 - STABILITY AND REACTIVITY

### 10.1 - Reactivity

The substance is a strong acid, it reacts violently with bases (releasing heat).  
Exothermic reaction with water.

### 10.2 - Chemical stability

Stable under recommended handling and storage conditions (See section 7).  
Avoid high temperatures. May decompose at high temperatures forming toxic gases.

### 10.3 - Possibility of hazardous reactions

Corrosive to many metals. Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas. Contact with strong bases or alkaline materials may cause violent reaction or explosion. Releases toxic chlorine gas in contact with hypochlorite. Exothermic reaction with water.

### 10.4 - Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5 - Incompatible materials

Avoid contact with: Strong bases, oxidizing agents, amines, alkali permanganates (i.e. potassium permanganate), fluorine, metal acetylides, hexalithium disilicide.  
Aqueous solutions attack most metals give off flammable gaseous hydrogen.  
Avoid: Copper, aluminum, zinc and their alloys. Rubbers.

### 10.6 - Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases: Chlorine (Cl), Hydrogen chloride (HCl), Carbone oxides (CO<sub>x</sub>), Nitrogen oxides (NO<sub>x</sub>).  
In case of fire refer to section 5.



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## 11 - TOXICOLOGICAL INFORMATION

### 11.1 - Information on toxicological effects\*

#### *Toxicological information concerning the product:*

**Acute toxicity:** No data on the formulation, assessment by the conventional method.

#### **Local effects / Health effects:**

**Cutaneous:** Irritant. Irritating to skin and mucous membranes  
**Eye:** Irritating to eyes. May cause irreversible eye damage.  
**Inhalation:** Material may be irritating to mucous membranes and upper respiratory tract.  
**Ingestion:** Effects due to ingestion may include: Severe irritation, Burning pain in mouth, throat and stomach.  
**Mucous membranes:** Irritant.

#### **Chronic toxicity:**

**Sensitization:** To our knowledge, not sensitizing.  
**Carcinogenicity:** To our knowledge, no carcinogenic effects.  
**Mutagenicity:** To our knowledge, not mutagen.  
**Development/reproduction:** According to data available, no evidence of adverse effects on sexual function and fertility, or on development.  
**STOT:** STOT-SE: May cause respiratory irritation.  
STOT-RE: Based on available data, the classification criteria are not met.  
**Aspiration hazard:** Not classified based on available information.

#### **Other data:**

Refer to INRS Fiche toxicologique (Toxicological Sheet) n° 13 on Hydrochloric acid.  
Toxic effect linked with corrosive properties.  
Other dangerous properties for health cannot be excluded.

#### *Toxicological information relating to the principal substances present in the product:*

<b>Hydrochloric acid (CAS : 7647-01-0): SDS Supplier.</b>	
<b>Acute toxicity:</b>	LD <sub>50</sub> po. (Rat): 700 mg/kg. LD <sub>50</sub> pc. (Rabbit): 5 010 mg/kg. LC <sub>50</sub> inh. (Rat): 45.6 mg/m <sup>3</sup> . LC <sub>50</sub> inh. (Rat): 7 000 mg/m <sup>3</sup> /30 min.
<b>Local effects:</b>	
<b>Skin:</b>	Skin corrosion/irritation (Rabbit): Very corrosive to skin. Causes severe burns. Serious lesions with possible after-effects if a washing is not quickly carried out.
<b>Eyes:</b>	Serious eye damage/irritation (Rabbit): Very corrosive. Causes severe eye burns. Serious major and extensive caustic lesions if a washing is not quickly carried out. The after-effects are frequent (corneal opacities...). Risk of blindness.
<b>Inhalation:</b>	Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Effects due to inhalation may include: Burning sensation, asthmatiforme coughs, laryngitis, respiratory failure, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pulmonary congestion, pulmonary oedema.
<b>Ingestion:</b>	The ingestion of a concentrated solution of hydrogen chloride is immediately followed by oral, retro-sternal and epigastric pain. Vomitings are common; they are usually bloody. Complications that can occur in the days following ingestion are: gastrointestinal bleeding, oesophageal or gastric perforation, shock (due to perforation or massive haemorrhage).
<b>Chronic toxicity:</b>	
<b>Sensitization:</b>	Did not cause sensitisation on laboratory animals.



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Hydrochloric acid (CAS : 7647-01-0): SDS Supplier.	
Carcinogenicity:	The product is not considered carcinogenic according to IARC. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid).
Mutagenicity:	According to data available, the product is not mutagenic.
Development/reproduction:	According to data available, no risk of lesion of the capacity of reproduction.
STOT-SE :	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. (Hydrochloric acid).
STOT-RE :	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard:	No aspiration toxicity classification (Hydrochloric acid).

## 12 - ECOLOGICAL INFORMATION

### 12.1 - Toxicity

#### Information concerning the mixture:

No data on specific toxicity to soil organisms, plants and terrestrial and aquatic animals are available. Assessment by the conventional method.

Acute ecotoxicity: No data available.

Chronic ecotoxicity: No data available.

Impact on sewage treatment plants: No data available.

#### Information relating to the principal substances present in the mixture:

Substance	CAS N°	Data	References
Hydrochloric acid	7647-01-0	LC <sub>50</sub> (96h/ <i>Brachydanio rerio</i> ): 369 mg/L	SDS supplier
		LC <sub>50</sub> (96h/ <i>leuciscus idus</i> ): 862 mg/L/48h (Sol. 1N)	
		LC <sub>50</sub> (96h/ <i>Gambusia affinis</i> ): 282 mg/L	
		EC <sub>50</sub> (48h/ <i>Daphnia magna</i> ): 213 mg/L	
		IC <sub>50</sub> (120h/ <i>Scenedesmus subspicatus</i> ): 25.5 mg/L.	

### 12.2 - Persistence and degradability

#### Information concerning the mixture:

Biodegradation: No data available.

Chemical oxygen demand (COD): No data available.

#### Information relating to the principal substances present in the mixture:

Substance	CAS N°	BOD –ThOD – COD	References
Hydrochloric acid	7647-01-0	Inorganic compound Non Applicable	SDS supplier

### 12.3 - Bioaccumulative potential

#### Information concerning the mixture:

log Pow: No data available.

Bioconcentration Factor (BCF): Not concerned.

Bioaccumulation: No data available.

#### Information relating to the principal substances present in the mixture:

Substance	CAS N°	log Pow – BCF	References
Hydrochloric acid	7647-01-0	Not applicable Inorganic ionisable compound	SDS supplier



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## 12.4 - Mobility in soil

### Information concerning the mixture:

The product is a mixture. See below for information on ingredients.

### Information relating to the principal substances present in the mixture:

Substance	CAS N°	Data	References
Hydrochloric acid	7647-01-0	Potential for mobility in soil very high. Product infiltrates easily into soils. Volatile product from the aqueous medium, vapours soluble in water.	SDS supplier

## 12.5 - Results of PBT and vPvB assessment

### Information concerning the mixture:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

The criteria for the identification of PBT/vPvB properties do not apply to inorganic substances (REACH, Annex XIII).

### Information relating to the principal substances present in the mixture:

Substance	CAS N°	Statut	References
Hydrochloric acid	7647-01-0	The criteria for the identification of PBT/vPvB properties do not apply to inorganic substances.	SDS supplier

## 12.6 - Other adverse effects

### Other effects:

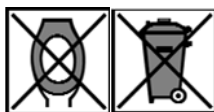
Toxic effect due to the modification of the water pH. Acid substance/product being able to result in a decrease of the pH. The pH will go up quickly after the dilution in ambient water until formation of a neutral product. The substance cannot be discharged in a not controlled way: it could be harmful to the aquatic organisms.

# 13 - DISPOSAL CONSIDERATIONS\*

## 13.1 - Waste treatment methods

### Waste disposal:

Prohibitions:



Do not allow material to be released to the environment.

Do not reject to sewers or rivers.

Do not evacuate with the household waste.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Destruction/Elimination:

Hazardous waste. Recycle or dispose in an approved collecting and treating centre of chemical waste, observing local authority regulations.

### Soiled packing:

Disposal:

The used packaging is only intended for the packaging of this product.

After use, ensure the packaging is empty and close.

Contaminated packing must be treated in the same way that the respective chemical.

### Recommended cleaning agent:

Water.

### National regulations (France):

Waste:

The regulation relating to waste is codified in the "CODE DE L'ENVIRONNEMENT", according to the Ordinance 2010-1579 of December 17, 2010.

Code de l'Environnement – Part I – Book V (Prevention of pollution, the risks and the harmful effects) – Title IV (Waste) – Chapter I (Waste disposal and recovery of materials) – Art. L. 541-1 to L. 541-50.



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Waste category: The waste classification is given in the “CODE DE L'ENVIRONNEMENT”, according to the Decree 2007-1467 of October 12, 2007.

Code de l'Environnement – Part II – Book V (Prevention of pollution, the risks and the harmful effects) – Title IV (Waste) – Chapter I (Waste disposal and recovery of materials) – Section I – Sous-Section II – Art. R. 541-7 to R. 541-11 and their annexes.

Waste code: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. **(S11)**.

The waste code(s) given below is/are indicated as a suggestion:  
 06 01 02\*: Hydrogen Chloride.

### International regulations (EC):

Waste: Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

Waste shipments: Regulation (EC) N° 1013/2006 of the European Parliament and of the Council of 14<sup>th</sup> June 2006 on shipments of waste.

Waste code: Commission Decision 2014/955/EU amending decision 2000/532/EC of 3 May 2000 establishing a list of hazardous waste. Waste codes should be assigned by the user according to their use. The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.

Waste code: European Waste Classification (Eural Code):  
 The waste code(s) given below is/are indicated as a suggestion:  
 06 01 02\*: Hydrogen Chloride.

Note: The user should be aware of the possible existence of national, provincial, municipal or local regulations that may affect waste disposal procedures.

## 14 - TRANSPORT INFORMATION

ADR	IMDG	IATA
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### 14.1 - UN number


UN number: 1789.

UN number:
1789

### 14.2 - UN proper shipping name

Proper shipping name
1789 HYDROCHLORIC ACID

### 14.3 - Transport hazard class(es)

Label:
8
Classe(s) :
8




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<b>Classification Code:</b>		
C1		
<b>Hazard identification number (Kemler No.):</b>		
80		
<b>Tunnel restriction code:</b>		
E		
<b>EmS number:</b>		
	F-A ; S-B	

## 14.4 - Packing group

<b>Packing group:</b>		
II	II	II

## 14.5 - Environmental hazards

<b>Marine pollutants:</b>		
No	No	No

## 14.6 - Special precautions for user\*

Individual precautions: The driver should not take action in case of cargo fire.  
Complementary data: In case of accident, refer to special instructions of Chapters 5, 6 and 7 of this Safety Data Sheets.  
Emergency measures in the event of an accident: Stop the engine.  
No naked flames. No smoking.  
Mark roads and warn other road users.  
Keep public away from danger area.  
NOTIFY POLICE AND FIRE BRIGADE.  
Warning: Corrosive substances.

## 14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The mixture is not concerned.

The mixture contains a concerned substance:

Substance name: Hydrochloric acid (7647-01-0)  
IBC Code: IBC03  
Type of necessary ship: 3  
Category of pollution: Z

Note: The regulations cited above are those in force as of the date of this writing. Due to the continuous evolution of regulations governing transport of hazardous materials, users are advised to obtain updated information from their supplier if the SDS in their possession is more than 12 months old.

## 15 - REGULATORY INFORMATION

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

#### International regulations (EC):

##### Regulation (EC) No. 1907/2006 (REACH):

- Annex XIV (authorization: SVHCA): The mixture does not contain any listed substance.

- Annex XVII (restriction): The mixture does not contain any listed substance.

The mixture is not subjected to authorization of marketing or to use restriction.

**Regulation (EC) No. 648/2004:** The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.





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**Labelling according to Regulation (EC) No. 648/2004 and 907/2006:**  
5 – 10 % - Non-ionic surfactants.

**Regulation (EC) No. 528/2012 (Directive 98/8/EC):**

The biocides used in the preparation comply with the declared uses indicated by the biocidal suppliers in accordance with the Regulation (EU) n° 528/2012.

Substance	CAS	Biocidal number	Product Type assessed	Acte
Hydrochloric Acid	7647-01-0	56	2	Directive 2012/16/ EU

**People protection:**

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.  
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.  
Council Directive 92/85/EC of 19 October 1992 on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

**National Regulations (French):**

**Workers protection:**

Labour Code:

The regulation relating to workers protection is codified in the “CODE DU TRAVAIL”, according to the Ordinance 2007-239 of March 12, 2007.  
Labour code – Legislative Part – Part IV (Health and Safety at Work).  
The prevention of chemical risks is provided Book IV – Title VI – Art. L4411 and L4412.

Social Security Code:

Labour Code – Regulatory Part – Part IV (Health and Safety at Work).  
The regulation relating to professional diseases is codified in the “CODE DE LA SECURITE SOCIALE”, according to the Ordinance 2005-804 of July 18, 2005.  
Social Security Code – Legislative Part – Book IV – Title VI – Art. L 461-1 to 8.  
Social Security Code – Regulatory Part – Book IV – Title VI – Art. R461-3 and D461-1 – Art. Annex II.

Others:

Order of February, 7<sup>th</sup> 2007 defining classification criteria, packaging and labelling conditions of dangerous preparations.  
Decree 2003-1254 of December, 23<sup>th</sup> 2003 (JORF of March, 2<sup>nd</sup> 2004).

**Environmental Protection:**

Classified installations\*:

Classified Installations for the Protection of Environment (ICPE).  
Not concerned.

Wastes:

The regulation relating to waste is codified in the “CODE DE L'ENVIRONNEMENT”: Ordinance 2010-1579 of December 17, 2010.

Waste category:

The waste classification is given in the “CODE DE L'ENVIRONNEMENT”: Decree 2007-1467 of October 12, 2007.  
The waste code(s) given below is/are indicated as a suggestion:  
06 01 02\*: Hydrogen Chloride.

**National Regulations (Germany):**

VwVwS:

Water pollution class: WGK calculated: WGK1.



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Substance	N° CAS	WGK
Hydrochloric acid	7647-01-0	WGK1

## International Regulations:

### Recording numbers:

European Inventory: All the components of this preparation are pre-registered, registered in REACH or are in accordance with the Regulation (EC) No. 528/2012.

## 15.2 - Chemical safety assessment

No assessment of the chemical safety was carried out by the supplier for this mixture.

A Chemical Safety Assessment of was made for:

Substance	CAS number
Hydrochloric acid	7647-01-0

Note: The legal information cited this section (heading) reflects only the principal regulations specifically applicable to the subject of these SDS. The basic Community texts cited are the subjects of updates and are transcribed in national law. Users are encouraged to refer to all applicable measures or provisions, international, national and local. Users should be aware of the possible existence of other provisions supplementing these regulations.

## 16 - OTHER INFORMATION

**Update:** This SDS was updated (see date in top of page).  
Modifications since the last version are indicated with (\*).

**Reason of update:** Update of information concerning the product and components.

### Abbreviations and acronyms:

ATE: Acute Toxicity Estimate.  
BCF: BioConcentration Factor.  
BOD: Biological Oxygen Demand.  
CAS No.: Chemical Abstract Service Registry Number  
COD: Chemical oxygen demand.  
DMEL: Derived Minimal Effect Level.  
DNEL: Derived No-Effect Level.  
EC<sub>50</sub>: Effective Concentration for 50% of the test population.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ELINCS: European List of Notified Chemical Substances.  
EL<sub>50</sub>: Effective Level or Effective Loading rate lethal to 50% of the test population. (EL<sub>50</sub> is similar to EC<sub>50</sub>, but tests the water phase from incompletely miscible mixtures).  
IARC: International Agency for Research on Cancer.  
INERIS: Institut National de l'Environnement industriel et des RISques.  
INRS: Institut National de Recherche et de Sécurité.  
IUCLID: International Uniform Chemical Information Database.  
LC<sub>50</sub>: Lethal Concentration for 50% of the test population.  
LD<sub>50</sub>: Lethal Dose level for 50% of the test population.  
LL<sub>50</sub>: Lethal Level or Lethal Loading rate for 50% of the test population (LL<sub>50</sub> is similar to LC<sub>50</sub>, but tests the water phase from incompletely miscible mixtures).  
Loading Rate: total amount of test substance added to dilution water to prepare WAFs for ecotoxicity testing.  
LOAEL: Lowest Observable Adverse Effect Level.  
Log Kow: octanol-water partition coefficient.  
NLP: No-Longer Polymers list.



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NOAEL: No Observable Adverse Effect Level.  
NOEC: No Observable Effect Concentration.  
NOELR: No Observable Effect Loading Rate.  
OECD: Organisation for Economic Co-operation and Development.  
OEL: Occupational Exposure Limit.  
PBT: Persistent, Bioaccumulative and Toxic.  
vPvB: very Persistent very Bioaccumulative.  
PNEC: Predicted No-Effect Concentration.  
REACH: Registration, Evaluation, Authorization and restriction of CHemicals.  
STEL: Short Term Exposure Limit.  
ThOD: Theoretical Oxygen Demand.  
TIC: Tremcard international Code.  
TWA: Time Weighted Average.  
UVCB: Unknown or Variable Composition or Complex Biological Origin.  
VLE: Occupational Exposure Limit short terms 15 min. (VLCT). (VLE or VLTC are similar to STEL).  
VME: Occupational Exposure Limit 8 h. (VLEP). (VME or VLEP are similar to TWA).  
WAFs: Water Accommodated Fractions: An aqueous fraction containing the dissolved and/or suspended and/or emulsified fraction of a multi-component substances or a mixture.  
WGK: WasserGefährdungsKlasse (water pollution class, Germany).

**References and sources for data:** SDS suppliers.  
Regulation (EC) no 1907/2006 of the European Parliament and of the Council of 18<sup>th</sup> December 2006, REACH.  
Regulation (EC) no 1272/2008 of the European Parliament and of the Council of 16<sup>th</sup> December 2008, CLP.  
ECHA – <http://echa.europa.eu>.  
Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA) – <http://www.dguv.de>.  
International Chemical Safety Cards (ICSCs) – <http://www.inchem.org>.  
INRS – <http://www.inrs.fr>.

## List of R and H phrases of the substances indicated in sections 2 and 3:

Met. Corr.: Corrosive to metals.  
Skin Cor.: Skin corrosion.  
Skin Irrit.: Skin irritation.  
Eye Irrit.: Eye irritation.  
STOT-SE: Specific target organ toxicity - single exposure.  
STOT-RE: Specific target organ toxicity - repeated exposure.  
H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
C: Corrosive.  
Xi: Irritant / Sensitizing.  
R 34: Causes burns.  
R 37: Irritating to respiratory system.

## List of P phrases indicated in section 2:

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.



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P260:	Do not breathe dust/fume/gas/mist/vapours/spray.	
P264:	Wash hands thoroughly after handling.	
P280:	Wear protective gloves/protective clothing/eye protection/face protection.	
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.	
P301 + P330 + P331:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P304 + P340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P501:	Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national/international regulation.	
Dosages:	There is a test kit for this product.	
Author:	SDS worked out by CB Distribution, according to the commission regulation (EU) N° 2015/830 of 28 May 2015 amending the guideline of the FDS given in annex II of European Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).	

### Advice to users

This SDS supplements the technical notice but does not replace it. The information which it contains is based on the best data available as of the date of issuance, as are references to regulations and laws. It is given in good faith. Users should be aware of potential risks if the product is used for purpose other than those for which it is intended. The user is responsible for observing the regulations governing the usage of such products, and for observing appropriate precautions in usage, handling, and storage. The laws and regulations cited in this document should not be considered an exhaustive listing; they are mentioned to assist users in the proper usage of this product, but it remains the responsibility of users to observe all laws and regulations governing its usage.

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