


SAFETY DATA SHEET

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name:	SHMUFFEX
1.2 Intended use:	Liquid detergent suitable to remove mildew and studied for the nautical field.
1.3 Company information:	Blue Marine SRL S Viale Ionio sn – 74025 Marina di Ginosa (TA) tel. 0039 99 8271746 Fax. 0039 99 8272091
1.4 Emergency Phone:	Hospital Niguarda (MI) Italy tel. 0039 2 66101029

2 HAZARD IDENTIFICATION

2.1 Product Classification
This product is classified as hazardous according to 67/548/CE, 1999/45/CE Directives and their adaptations.

Hazard symbol: Xi
Risk Phrases: R36/38 Irritating to eyes and skin R31 Contact with acids liberates toxic gas
2.2 Hazard identification
This product is irritating to eyes and skin. Contact with eyes causes severe irritations; therefore, immediately flush eyes with plenty of clean water for an extended time lifting the eyelids and seek medical advice. In case of contact with skin, flush skin with plenty of water.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical Characterisation/hazardous components:			
Chemical name	CAS	Content % (weight)	Classification
sodium hypochlorite	7681-52-9	< 5	C R31; R34
Alcohols, (C10-16), ethoxylated, monoether with sulphuric acid, sodium salts	68585-34-2	< 5	Xi R41; R38
N,N-Dimethyltetradecylamine N-oxide	3332-27-2	< 5	Xi R38;R41;N R50
sodium hydroxide	1310-73-2	< 1	C R35
Perfume			Xi R36/38;R41 N R52/53

SAFETY DATA SHEET

4 FIRST AID MEASURES

4.1 General measures:

In all cases of symptoms or general uneasiness attributable to the product, seek medical attention. Never give anything by mouth to an unconscious person.

4.2 Inhalation:

This product may inhale toxic gas or vapour. In all cases of symptoms attributable to the product, move the exposed person to fresh air; get medical attention if any discomfort continues.

4.3 Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting the eyelids. Get medical aid immediately. This product may be very irritating to eyes.

4.4 Skin contact:

In case of irritation, immediately flush skin with plenty of water. If irritation persists, seek medical advice.

4.5 Ingestion:

Take person to the nearest medical emergency treatment center and show this Material Safety Data Sheet.

5 FIRE FIGHTING MEASURES

5.1 Fire extinguishers recommended:

Water, dry powder extinguishers, carbon dioxide extinguishers, foam, etc...

5.2 Prohibited fire extinguishers: None.

5.3 Combustion hazards:

In case of combustion, toxic products of combustion could be chlorine gas or chlorine compounds, due to the chemical product's reaction with other substances.

This product is not a combustible, but it can promote combustion of other materials.

6 ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions:

In case of release of big quantities of product, wear suitable protective equipment as gloves and gas mask. Pay special attention to prevent accidental slips or falls caused by the product that forms very slippery surface.

6.2 Measures for environmental protection:

Do not allow product to reach ground water or water course.

6.3 Measures for cleaning/collecting:

Contain and collect spillage with absorbent inorganic material (eg dry sand, etc...); spill and residue (hazardous waste) shall be kept and shall be delivered to an suitable treatment plant.

7 HANDLING AND STORAGE

7.1 Handling:

No specific safety handling measures under normal and proper conditions of use.

Pay special attention to prevent accidental splashes in the eyes. Do not spray on metals.

SAFETY DATA SHEET

7.2 Storage:

Keep away from heat; keep away from direct sunlight. Keep out of the reach of children. It's advisable not smoking or eating when working. Keep only in the original container. Do not store with oxidizing and reducing agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure:

No special requirements under normal use conditions; however use only in well ventilated areas.

8.2 Exposure Limit Values:

None under normal conditions of use.

8.3 Respiratory Protection:

None under normal conditions of use. Use only in well ventilated areas.

8.4 Hand protection:

No special requirements for this typology of product; however, it's advisable to wear suitable rubber gloves to avoid accidental contacts.

8.5 Eye protection:

No special requirements under normal use conditions; be careful to avoid splashes to the eyes.

8.6 Skin protection:

No special requirements with the exception of what mentioned in Section "8.4".

9 PHYSICAL AND CHEMICAL PROPERTIES

• Form:	thick liquid
• Colour:	pale yellow
• Odor:	acrid
• Density at 20°C:	1,05 - 1,1
• pH(20°C):	12,5 - 13,5
• Flash Point:	none
• Ignition point:	none
• Explosion limits:	none
• Water Solubility:	solubile

10 STABILITY & REACTIVITY

10.1 Conditions to avoid:

keep away from any source of heat; keep away from direct sunlight. Keep away from oxidizing and reducing agents.

10.2 Materials to avoid:

Do not mix with other products or chemicals, toxic vapors of chlorine may be released. Avoid contact with acids products or highly oxidizers products. This product favours combustion of combustible materials.

10.3 Hazardous decomposition products:

Toxic vapors of chlorine may be released; see Section 10.2.

SAFETY DATA SHEET

11 TOXICOLOGICAL INFORMATION

No toxicological information available for this product as a whole. See below for toxicological information of individual components of the product:

- Sodium hypochlorite:

Acute oral toxicity (LD50): 8910 mg/kg [Rat]

Acute dermal toxicity (LD50): > 3000 mg/kg [Rat]

Acute inhalation toxicity (LC50): 10,5 mg/l/1h [Rat]

- N,N-Dimethyltetradecylamine N-oxide:

Primary irritant effect:

on the skin: irritant

on the eye: highly irritant, may cause irreversible damages.

- Alcohols, (C10-16), ethoxylated, monoether with sulfuric acid, sodium salts:

Ingestion: oral/rat LD50 > 2000 mg/kg; classified as "not dangerous for ingestion"; however, may cause irritation to the mouth and upper digestive tract if ingested.

Primary irritant effect:

on the skin: mildly irritant.

on the eye: may cause irreversible damages.

12 ECOLOGICAL INFORMATION

This product contains biodegradable surface active agents more than 90% (art. 2 and 4 Law 26/4/83 No. 136).

Handle in accordance with good industrial hygiene and safety practice. Avoid release to the environment.

Contains biodegradable Surface-active agents.

Ecotoxicity refers to:

- Sodium hypochlorite: LC50/96h/fish (Pimephales promelas) = 0,18 mg/l; 2,48 mg/l/96h (Lepomis macrochirus). LC50 Algae: 0,09-0,16 mg/l/96h.
- N,N-Dimethyltetradecylamine N-oxide: Toxic to environment.

13 DISPOSAL CONSIDERATION

Any inert material used to absorb spillages (special waste) should be disposed of via an authorized disposal site. Product classified not hazardous to the environment.

14 TRANSPORT INFORMATION

14.1	ADR:	Not dangerous goods
14.2	RID:	Not dangerous goods
14.3	ICAO/IATA:	Not dangerous goods
14.4	IMGD:	Not dangerous goods

15 REGULATORY INFORMATION

Additional regulatory information:

D.P.R. 303/56	General hygiene safety work norms.
D.L. 136/83	Biodegradability of detergents.
D.P.R. 175/88	Work with high risk of accident.
D.P.R. 547/55	Work accidents prevention norms.
D.L.	Protection from noise, asbestos, lead.
D.P.R. 250/89	Detergent labelling.
D.L. 626/94	Risk evaluation and security planning.
D.L. 22/97	Waste disposal regulations;
D.L. 152/99	Water protection.

SAFETY DATA SHEET

16 OTHER INFORMATION

Risk phrases:	R34 Causes burns. R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin. R41 Risk of serious damage to the eyes. R31 Contact with acids liberates toxic gas. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:	S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of soap-suds. S51 Use only in well ventilated areas. S49 Keep only in the original container.
Bibliographic sources: Material Safety Data Sheets of raw materials.	
Note for user: The information in this MSDS was obtained from current and reputable sources. User must make sure of suitability and completeness of these information, according to the specific employment of this product. This data is provided without any warranty, express or implied, regarding its correctness or accuracy. We can't monitor use of product, therefore user must obey to safety and hygiene rules, on his own responsibility. It is the users responsibility both to determine safe conditions for the use of this product and to assume liability for injury or damage resulting from improper use of this product.	