

MATERIAL SAFETY DATA SHEET

(according to the Regulation (EC) No 1907/2006 of European Parliament)

SUPER SAVE BLEACH

1. Identification of the Substance/Preparation and The Company/Undertaking

1.1 Trade Name: Super Save Bleach

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

Intended or recommended use of the mixture: The product is used for cleaning of floors, surfaces, objects and sanitary equipment. It can be used as deodorant and bleaching agent (for textiles, wood etc.). The Product counteracts against microscopic fibrous fungi, algae and lichens and it is a strong bactericide.

Uses advised against: Don't use for metal and enamel surfaces, fabric, skin, wood and rubber.

1.3 Details of the supplier of the safety data sheet

Supplier: **ALLCHEM LTD.,
BLB 45A, Bulebel Industrial Estate,
Zejtun,
Malta.
(+356) 21803841
info@allchemmalta.com**

Emergency Tel. Nos.:
E-mail:

2. Hazards Identification

This product is classified according to Directive 1999/45/EC.

2.1 Classification of the substance or mixture

According 1999/45/EC Xi – Irritant, N – Dangerous for the environment, R31-36/38 -50

The most important adverse physicochemical, human health and environment effects:

The mixture is irritant to eyes and skin. Contact with acids liberates toxic gas. Very toxic to aquatic organisms.

2.2 Label elements

Symbol(s) of danger:



Dangerous for the environment



Irritant

Risk phrase(s):

R31	Contact with acids liberates toxic gas.
R36/38	Irritant to eyes and skin.
R50	Very toxic to aquatic organisms.

Safety advice:

S2	Keep out of reach of children.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical help.
S28	After contact with skin, wash immediately with plenty of water.
S46	If swallowed, seek medical advice immediately and show this container or label.

Label elements:**S50**

Do not mix with other cleaning agents.

S61

Avoid release to the environment.

The mixture is irritant and dangerous for the environment. Warning! Do not use together with other products. May release dangerous gases (chlorine).

3. Composition/Information On Ingredients

Hazardous components	%	CAS	EC	Index No.	Hazard Label R-phrases	Classification acc. CLP
Sodium Hypochlorite	< 5	7681-52-9	231-668-3	017-011-00-1	C,N; R31-34-37-50	Skin Corr. 1B; Aquatic Acute 1, Met. Corr. 1, Eye Dam 1, STOT SE 3 H290-H314- H335-H400, EUH031

4. First Aid Measures**4.1 Description of first aid measures**

- **Inhalation:** shut off source of exposure, if possible. Bring the victim to the fresh air; keep at rest (avoid even walking) if necessary, seek medical attention.
- **Skin contact:** take off contaminated clothing and shoes. Wash thoroughly with water.
- **Eye contact:** flush immediately with large amounts of fresh water at least 10 minutes; seek medical attention.
- **Ingestion:** rinse mouth with water and leave victim to drink water (approx. 500ml). Do not induce vomiting, seek medical aid.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects are predominant.

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

In case of eyes contact, ingestion and in the lasting irritant effect ensure medical aid (show the label)

5. Fire-Fighting Measures**5.1 Suitable extinguishing media:**

All media.

5.2 Special exposure hazards:

If involved in a fire, it will support combustion.

5.3 Hazardous decomposition/combustion products:

In contact with heavy metals, their compounds and their alloys Sodium Hypochlorite decomposes under the development of oxygen.

5.4 Protective equipment:

If high concentration of vapours cannot be avoided, use adequate additional protection precautions.

6. Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Wear suitable personal protective equipment. Avoid contact with skin and eyes. Do not use the substance in closed area. Do not eat, drink and smoke when handling the product.

6.1.2 For emergency responders

Wear suitable personal protective equipment. Avoid contact with skin and eyes. Avoid release to the environment.

6.2 Environment precautions

Avoid release to the environment. In case of accidental discharge of large amount of the concentrated product to the surface water, ground water or waste water, notify local authorities according to local regulations.

6.3 Methods and material for containment and cleaning up

In case the product spill, use suitable absorbents and put into the labelled lockable container. In case of accidental discharge into sewers or watercourses, dilute the product with sufficient amount of water according to local regulations.

7. Handling And Storage

7.1 Precautions for safe handling: Handle this product in well ventilated areas and wear suitable personal protective equipment. Do not eat, drink and smoke when handling the product. Keep containers tightly closed. Avoid release to the environment.

7.2 Fire and explosion prevention: Keep away from combustible material.

7.3 Storage requirements: Do not store together with acids, reducing agents and flammable substances. Store in a dry, well ventilated place, away from sources of heat and direct sunlight.

8. Exposure Controls/Personal Protection

8.1 Control parameters

8.1.1 Exposure limits values

Substance	CAS	PEL (mg/m ³)	NPK-P (mg/m ³)	Conversion factor to ppm
Chlorine	7782-50-5	0.5	1.5	0.344

8.1.2 Information monitoring procedures

Monitor the concentration in the workplace

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide sufficient ventilation. Make use of personal protective equipment. Avoid contact with the skin and eyes. Observe rules of personal hygiene. Do not eat, drink and smoke. Before and after eating, wash hands with warm water and soap.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory: Provide sufficient ventilation and exhaustion of the area.
Hand: Wear PVC or rubber gloves.
Eye: In common use is not necessary. Avoid contact with eyes when handling.
Skin and body: Wear protective clothing.

8.2.3 Environment exposure controls:

Observe instructions for handling and storage, particularly ensure provisions preventing spill of concentrated mixture into the sewage.

9. Physical And Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Colour: Yellow
Odour: Irritating
Boiling point/range: Not available
Melting point/range: < - 16 Degrees Celcius
Density: 1220kg/m³ (20 deg.C)
Bulk density: Not relevant

Solubility in water:	Not available
pH value:	13.5 (at 150 g/l water, 20 deg.C)
Partition coefficient n-octano/water:	Not determined
Relative vapour density (air = 1):	Not available
Viscosity:	2.65 mPa.s at 20 deg.C

9.2 Other information

The product can cause textiles decolouration due to its bleaching effect.

10. Stability And Reactivity

10.1 Reactivity

The mixture reacts with acids, ammonia and strong oxidising agent. In reaction are generated toxic gases.

10.2 Chemical Stability

Decomposition starts at 10 deg.C.

10.3 Possibility of hazardous reactions

The mixture reacts with acids, ammonia and strong oxidising agents. In reaction are generated toxic gases. (risk of toxic gases-chlorine).

10.4 Conditions to avoid:

High temperature, large changes of storage temperatures, long effect of direct sunlight. Avoid product shaking – it lowers product durability.

10.5 Incompatible materials

Strong oxidising agents, acids, ammonia.

10.6 Hazardous decomposition products

Chlorine or chlorine oxides.

11. Toxicological Information

11.1 Information on toxicological effects

- | | |
|--------------------------------------|--|
| a) Acute toxicity: | LD50, oral, rat 8.91 g available chlorine/kg
LD50, dermal, rabbit > 10 g av Cl/kg
LC50, inhalation, rat > 10,5 ,mg av Cl/l |
| b) Irritation: | Primary irritating effects to mucous membranes, danger of eye damage, local irritation of respiratory system and skin. |
| c) Corrosivity: | The mixture is nor corrosive |
| d) Sensitisation: | Not known |
| e) Repeated dose toxicity: | Not known |
| f) Carcinogenicity: | Not known |
| g) Nutagenicity: | Not known |
| h) Toxicity for reproduction: | Not known |

12. Ecological Information

12.1 Toxicity

Acute toxicity is not available for the mixture

Sodium Hypochlorite

Acute toxicity for fish	LC50 – 0.032 mg TRO/L
Acute toxicity for invertebrates	EC50/LC50 - 0.026 mg/l/48hod
Acute toxicity/Chlorine toxicity for algae	EC10/LC10 nebo NOEC - 0.0021mg/l
Chronic toxicity for fish	NOEC - 0.04 mg CPO/L
Chronic toxicity for invertebrates	NOEC - 0.007 mg/l

12.2 Persistence and degradability

The mixture decomposes to sodium chloride and water.

12.3 Bioaccumulative potential

Not established

Sodium hypochlorite

It is not bioaccumulative

Mobility in soil

Concentrated and diluted sodium hypochlorite can be harmful to aquatic environment or aquatic organisms.

12.4 Results of PBT and vPvB assessment

PBT or vPvB tests for mixture are not been performed

12.5 Other adverse effects

Toxicity for other environment was not found out. Release of large amount of the product (in addition to the effect of sodium hypochlorite) can be harmful to other environment due to the alkalinity increase.

13. Disposal Considerations

13.1 Waste treatment methods

- a) **Product:** This product should be disposed of according to local regulations.
- b) **Contaminated packaging:** This product should be disposed of according to local regulations.

14. Transport Information

	(ADR/RID/GGVSE)	IMDG
14.1 UN No:	UN 3082	UN 3082
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (sodium hypochlorite)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (sodium hypochlorite)
14.3 Transport hazard class:	9	9
14.4 Packaging group:	III	III
14.5 Environmental hazards:	YES	YES
Other information	Danger code (Kemler): 90	Danger code (Kemler): 9
	Limited quantities (LQ): 51	Limited quantities (LQ): 51

15. Regulatory Information

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

Legislation regulating individual issues of the environmental protection and occupational hygiene conditions.

Regulation No. 1907/2006 (REACH)
Regulation No. 1272/2008/ES (CLP)
Government Regulation 68/2010 Coll. Stipulating conditions of H&S of employees at work, as amended by related regulations.
Directive 1999/45/EC of the classification, packaging and labelling of dangerous preparations.
Council Directive No. 92/EC on safety and health protection of employees from risks connected with chemical agent used at work.
Act. No. 258/2000 Coll. On public health protection as amended by related regulations.

15.2 Chemical safety assessment:

A chemical Safety assessment was not carried out for the mixture.

16. Other Information

16.1 Abbreviations and acronyms used

Skin Corr. 1B	Skin corrosion of category 1B
Aquatic Acute 1	Hazardous to the aquatic environment of category 1
Met. Corr 1	Substance or mixture corrosive to metals
Eye Dam 1	Serious eye damage
STOT SE 3	Specific target organ toxicity – single exposure, category 3
LD50	Lethal dose, 50 percent
LC50	Lethal concentration, 50 percent
NPK-P	Maximum Permissible Concentration
PEL	Permissible Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
VPvB	Very Persistent and Very Bioaccumulative

16.2 Key literature references and sources for data

Information contained herein is based on our best knowledge and current legislation, according 1907/2006/EC a 1272/2008/EC. Further, this Material Safety Data Sheet was elaborated on grounds of information provided by suppliers of particular components of the mixture. The MSDS contains information needed for security of safety and occupational health protection and the environmental protection. The mentioned information refers to present state of knowledge and experience and is in accordance with legislation in force. It cannot be considered warrantee of suitability or usability of the product for particular application.

16.3 The methods of evaluation information

The mixture was classified according to conventional method described in directive 1999/45/EC.

16.4 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R31	Contact with acids liberates toxic gas
R34	Causes burns
R36/38	Irritating to eyes and skin
R50	Very toxic to aquatic organisms
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
EUH 031	Contact with acids liberates toxic gas

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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