Product MILSAN

Revision date 17 July 2017

Revision 1



# Safety Data Sheet (SDS)

# Section 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product identifier

Product name MILSAN
Product no. DISMILSAN

Synonyms, Trade names No information available.

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

Identified usesCleaning agent.Uses advised againstAny other purpose.

# 1.3 Details of the supplier of the safety data sheet

**Supplier** Kitchenmaster NI Ltd

11 Comber Road

Belfast BT8 8AN United Kingdom

Tel: 028 9081477 02890812881 sales@kitchenmaster-ni.com

1.4 Emergency telephone number

**Contact person** 

Emergency telephone Emergency Telephone Number: 028 9081 4777 08:30 - 17:00 Monday to Thursday 08:30 -

16:30 Friday

# **Section 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards Not classified

Human health Skin Corr. 1C - H314, Eye Dam. 1 - H318

Environment Not classified

# 2.2 Label elements

**Contains** Sodium Hypochlorite Solution

sodium hydroxide

Label in accordance with (EC) no.

1272/2008



Signal word Danger

**Hazard statements** H314 Causes severe skin burns and eye damage.

Precautionary statements Prevention

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

#### 2.3 Other hazards

None known.

# **Section 3: Composition/identification of ingredients**

#### 3.1 Substance

Not applicable.

### 3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
Sodium Hypochlorite Solution		Skin Corr. 1B - H314, Eye Dam. 1 - H318, STOT SE 3 - H335, Me. Corr 1 - H290, Aquatic Acute 1 - H400	1-10%
sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5 REACH Reg No.: 01-2119457892-27-0000	, y	0.1-0.9%

The full text for all hazard statements are displayed in section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

# **Section 4: First aid measures**

# 4.1 Description of first aid measures

**General information** Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if

symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during

rescue.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Ingestion** If this product is ingested, remove victim immediately from source of exposure. Rinse mouth

thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical

attention. Never give anything by mouth to an unconscious person.

**Skin contact** Remove victim immediately from source of exposure. Remove contaminated clothing, shoes

and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical

attention if irritation persists or if blistering occurs.

Eye contact Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least

fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek medical attention.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** Inhalation of mist or vapor may cause respiratory tract irritation.

**Ingestion** May cause chemical burns in mouth and throat. May cause severe internal injury.

**Skin contact** Causes severe skin burns.

Eye contact Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive

to eyes.

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

**Notes to the physician** Treat symptomatically.

### **Section 5: Fire-fighting measures**

### 5.1 Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None noted.

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

Hazardous combustion products When heated, toxic and corrosive vapours/gases may be formed. During fire, toxic gases (CO,

CO2) are formed.

Unusual fire & explosion hazards

Specific hazards

Flammable hydrogen can form when the product contacts metals.

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

# 5.3 Advice for firefighters

Special fire fighting procedures

If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.

Protective equipment for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### Section 6: Accidental release measures

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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide

> adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas.

For emergency responders

Follow safe handling advice and personal protective equipment recommendations for normal

use of product.

### **6.2 Environmental precautions**

**Environmental precautions** Do not discharge onto the ground or into water courses. Do not allow ANY environmental

contamination.

# 6.3 Methods and material for containment and cleaning up

Ventilate and evacuate the area. Eliminate all ignition sources. When dealing with a spillage, Spill clean up methods

> wear necessary protective equipment. DO NOT touch spilled material! Stop leak if possible without risk Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.

### 6.4 Reference to other sections

Reference to other sections See section 1 for emergency contact. For personal protection, see section 8. For waste

disposal, see section 13.

# Section 7: Handling and storage

# 7.1 Precautions for safe handling

Handling Read and follow manufacturer's recommendations. Use proper personal protection when

handling (refer to Section 8). Do not handle broken packages without protective equipment.

Do not use contact lenses.

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep upright, locked up and out of reach of children. Keep the product in its original Storage precautions

 $container. \ Store\ in\ cool\ dry\ areas\ away\ from\ direct\ sunlight\ or\ sources\ of\ ignition.\ Store$ 

separate from other products which react with acids and strong oxidising agents. Corrosive storage.

Storage class

7.3 Specific end use(s)

Specific end use(s)The identified uses for this product are detailed in Section 1.2.Usage descriptionUse only according to directions. Replace and tighten cap after use.

### **Section 8: Exposure controls/Personal protection**

### **8.1 Control parameters**

Component	STD	TWA (8 Hrs)	STEL (1	15mins)	Notes
sodium hydroxide	OEL			2 mg/m <sup>3</sup>	
sodium hydroxide	WEL			2 mg/m <sup>3</sup>	

Ingredient comments WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.

OEL - Occulational Exposure Limit - Ireland, Occupational Exposure Limits 2016.

### **8.2 Exposure Controls**

#### Protective equipment









**Engineering measures**Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Respiratory equipment** If ventilation is inadequate, suitable respiratory protection must be worn. EN

136/140/145/143/149. The specific respirator selected must be based on contamination levels

found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Consult manufacturer for specific

advice.

**Hand protection** Where hand contact with the product may occur the use of gloves approved to relevant

standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Nitrile rubber. Layer thickness: 0.11mm.

Breakthrough time: >480 min. Consult manufacturer for advice.

Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. 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.

**Eye protection** Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment

for eye protection tested and approved under appropriate government standards such as EN

166(EU).

**Other protection** The selected clothing must satisfy the European norm standard EN 943. Personal protective

equipment for the body should be selected based on the task being performed and the risks  $\frac{1}{2}$ 

involved and should be approved by a specialist before handing this product.

Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When

using do not eat, drink or smoke. Wash hands after use.

**Process conditions** Ensure that eye flushing systems and safety showers are located close by in the work place.

# Section 9: Physical and chemical properties

Hygiene measures

# 9.1 Information on basic physical and chemical properties

Appearance Liquid.

Colour Straw coloured.
Odour Odourless.

Odour threshold - lower No information available.

**Odour threshold - upper** No information available.

pH-Value, Conc. Solution 14.00

**pH-Value, Diluted solution** No information available.

**Melting point** No information available.

Initial boiling point and boiling

range

No information available.

Flash point No information available.

**Evaporation rate** No information available.

Flammability state No information available.

Flammability limit - lower(%) No information available.

Flammability limit - upper(%) No information available.

Vapour pressure No information available.

Vapour density (air=1) No information available.

**Relative density**  $1.164 \text{g/cm}^3 \otimes 20.00 \text{ °C}$ 

**Bulk density** No information available.

**Solubility** No information available.

**Decomposition temperature** No information available.

Partition coefficient; n-

Octanol/Water

No information available.

Auto ignition temperature (°C) No information available.

**Viscosity** No information available.

**Explosive properties** Not classified as explosive.

Oxidising properties No information available.

9.2 Other information

Molecular weight No information available.

**Volatile organic compound** No information available.

**Other information** None noted.

# Section 10: Stability and reactivity

10.1 Reactivity

**Reactivity** Reaction with: Strong oxidising agents. Reaction with strong acid. May react with active

metals, such as aluminum and iron, to release flammable hydrogen gas.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

**Hazardous reactions** See section 10.1 for information on hazardous reactions.

**Hazardous polymerisation** Will not polymerise.

**Polymerisation description** Not applicable.

10.4 Conditions to Avoid

**Conditions to avoid** Heat, sparks, open flames, temperature extremes and direct sunlight.

10.5 Incompatible materials

Materials to avoid Avoid oxidising agents. Strong acids. Do not mix with other chemicals unless listed on

directions. Avoid contact with metals.

10.6 Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours.

### **Section 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Toxicological information** No toxicological information for the overall finished product.

Acute toxicity (Oral LD50) SODIUM HYDROXIDE (CAS 1310-73-2): 325 mg/kg bw, Rabbit. REACH dossier information.

SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9): 1100 mg/kg, Rat. REACH dossier

information.

Acute toxicity (Dermal LD50) SODIUM HYDROXIDE (CAS 1310-73-2): 1350 mg/kg, Rabbit. IUCLID chemical data sheet.

SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9) > 20000 mg/kg, Rabbit. REACH

dossier information.

Acute toxicity (Inhalation LD50) SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9) > 10.5 mg/l (vapours, Rat, 1 hour).

REACH dossier information.

**Serious eye damage/irritation** Causes severe eye damage.

**Skin corrosion/irritation** No information available.

Respiratory sensitisationNo information available.Skin sensitisationNo information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Specific target organ toxicity - Single exposure:** 

**STOT - Single exposure** No information available.

 ${\bf Specific\ target\ organ\ toxicity\ -\ Repeated\ exposure:}$ 

**STOT - Repeated exposure** No information available.

**Inhalation** Inhalation of mist or vapor may cause respiratory tract irritation.

**Ingestion** May cause chemical burns in mouth and throat. May cause severe internal injury.

**Skin contact** Causes severe skin burns.

**Eye contact** Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive

to eyes.

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

**Routes of entry** No information available.

**Target organs** Eyes, skin, digestive system, respiratory system.

Aspiration hazards: No information available. Reproductive toxicity: No information available.

Name	LD50 oral	LD50 dermal	LD50 inhalation
sodium chloride	3350.00mg/kg Rat	>10000.00mg/kg Rabbit	>42.00mg/l (vapours) Rat 1 Hours
sodium carbonate	2800.00mg/kg Rat	>2000.00mg/kg Rat	

### **Section 12: Ecological information**

### 12.1 Toxicity

Acute toxicity - Fish SODIUM HYDROXIDE (CAS 1310-73-2) LC50: (96 hours) 45.4 mg/l Oncorhynchus mykiss

> (Rainbow trout). IUCLID chemical data sheet. SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9) LC50: (96 hours) > 0.023 mg/l, Pink salmon. REACH dossier information.

Acute toxicity - Aquatic invertebrates SODIUM HYDROXIDE (CAS 1310-73-2) EC50: (48 hours) 40.4 ug/L, Ceriodaphnia sp.

REACH dossier information. SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9) EC50: (48 hours) 35 ug/L, Ceriodaphnia dubia. NOEC: (48 hours) 25 ug/L Ceriodaphnia dubia.

REACH dossier information.

**Acute toxicity - Aquatic plants** SODIUM HYPOCHLORITE SOLUTION (CAS 7681-52-9) EC50: (96 hours) ~ 0.01 mg/l,

Myriophyllum spicatum. NOEC: (96 hours) 0.02 mg/l, Myriophyllum spicatum. REACH

dossier information.

No information available.

No information available.

No information available.

Acute toxicity - Microorganisms

**Chronic toxicity - Fish Chronic toxicity - Aquatic** 

invertebrates

**Chronic toxicity - Aquatic plants** 

**Chronic toxicity - Microorganisms Ecotoxicity** 

No information available. No information available.

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic

organisms.

**Eco toxilogical information** No ecological toxicity available on the overall finished product.

### 12.2 Persistence and degradability

Degradability The degradability of the product has not been stated.

No information available. Biological oxygen demand Chemical oxygen demand No information available.

### 12.3 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Bioacculmation factor No information available. Partition coefficient; n-No information available.

Octanol/Water

# 12.4 Mobility in soil

Mobility No information available.

# 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB Substances.

#### 12.6 Other adverse effects

No information available. Other adverse effects

Name	Acute toxicity (Fish)		Acute toxicity (Aquatic plants)
Isodium chloride	LC50 96 Hours 5840.00mg/l Lepomis macrochirus (Bluegill)	LC50 48 Hours 4136.00mg/l Daphnia magna	
sodium carbonate	(Bluegill) LC50 96 Hours 300.00mg/l Lepomis macrochirus (Bluegill)	EC50 48 Hours 265.00mg/l Daphnia magna	

# **Section 13: Disposal considerations**

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

# 13.1 Waste treatment methods

Disposal methods Dispose of waste and residues in accordance with local authority requirements.

### **Section 14: Transport information**

### 14.1 UN number

 UN no. (ADR)
 UN1760

 UN no. (IMDG)
 UN1760

 UN no. (IATA)
 UN1760

### 14.2 UN proper shipping name

ADR proper shipping nameCORROSIVE LIQUID, N.O.S. (Sodium Hypochlorite Solution)IMDG proper shipping nameCORROSIVE LIQUID, N.O.S. (Sodium Hypochlorite Solution)IATA proper shipping nameCORROSIVE LIQUID N.O.S. (Sodium Hypochlorite Solution)

#### 14.3 Transport hazard class(es)

ADR class 8
IMDG class 8
IATA class 8

### Transport labels



# 14.4 Packing group

ADR/RID/ADN packing group III
IMDG packing group III
IATA packing group III

# 14.5 Environmental hazards

ADR No IMDG No IATA No

# 14.6 Special precautions for user

EMS F-A, S-B
Emergency action code A3
Hazard no. (ADR) 80
Tunnel restriction code (E)

### 14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

# **Section 15: Regulatory information**

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th

May 2010 amending regulation (EC) No 1907/2006.

**Approved code of practice** Workplace Exposure Limits Guidance Note EH40/2005.

2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of

the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

Chemical safety assessment No chemical safety assessment has been carried out.

# **Section 16: Other information**

**General information** This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.

**Revision comments** This is a first issue.

**Revision date** 17 July 2017 **Revision** 1

Safety data sheet status Approved.

# **Hazard statements in full**

**H290** May be corrosive to metals.

**H314** Causes severe skin burns and eye damage.

H318Causes serious eye damage.H335May cause respiratory irritation.H400Very toxic to aquatic life.H319Causes serious eye irritation.

# Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.