

Product Mould and Mildew Remover  
 Revision date 13 November 2020  
 Revision 2



**Safety Data Sheet (SDS)**  
 according to Regulation (EC) No. 1907/2006

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

<b>Product name</b>	<b>Mould and Mildew Remover</b>
<b>Product no.</b>	<b>HM121</b>
<b>Other means of identification</b>	No information available.

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

<b>Identified uses</b>	Tile and Sanitary cleaner. Spray and wipe manual process. Professional Use.
<b>Uses advised against</b>	Any other purpose.

**1.3 Details of the supplier of the safety data sheet**

<b>Supplier</b>	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN United Kingdom Tel: 028 9081477 02890812881 sales@kitchenmaster-ni.com
<b>Contact person</b>	

**1.4 Emergency telephone number**

<b>Emergency telephone</b>	Emergency Telephone Number: 028 9081 4777 08:30 - 17:00 Monday to Thursday 08:30 - 16:30 Friday
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**Section 2: Hazards identification**

**2.1 Classification of the substance or mixture**

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Me. Corr 1 - H290
Human health	Skin Corr. 1C - H314
Environment	Not classified

**2.2 Label elements**

<b>Contains</b>	sodium hypochlorite Sodium hydroxide
<b>Detergent labeling</b>	<5% chlorine-based bleaching agents <5% non-ionic surfactants

**Label in accordance with (EC) no. 1272/2008**



<b>Signal word</b>	Danger
<b>Hazard statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
<b>Precautionary statements</b>	<b>Prevention</b> P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

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

#### Response

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.

P363 Wash contaminated clothing before reuse.

## 2.3 Other hazards

None known.

## Section 3: Composition/identification of ingredients

### 3.1 Substance

Not applicable.

### 3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
sodium hypochlorite	CAS-No.: 7681-52-9 EC No.: 231-668-3 REACH Reg No.: 01-2119488154-34-XXXX	Aquatic Acute 1 - H400, Skin Corr. 1B - H314	1-5%
Dodecyltrimethylamine oxide	CAS-No.: 1643-20-5 EC No.: 216-700-6	Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Dam. 1 - H318, Aquatic Acute 1 - H400	0.1-1%
Sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5 REACH Reg No.: 01-2119457892-27-XXXX	Skin Corr. 1A - H314, Me. Corr 1 - H290	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

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. Provide general first aid, rest, warmth and fresh air.

#### Inhalation

Move the exposed person to fresh air at once. If breathing is difficult, oxygen should be administered by qualified personnel. If not breathing, give artificial respiration. Get prompt medical attention.

#### Ingestion

Get medical attention immediately. Do not induce vomiting. Provided the patient is fully conscious, washout mouth with water. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Artificial respiration and/or oxygen may be necessary.

#### Skin contact

Take off contaminated clothing and shoes immediately. Promptly flush contaminated skin with water. Continue to rinse for at least 15 minutes. Seek medical attention immediately.

#### Eye contact

SPEED IS ESSENTIAL. Avoid contaminating unaffected eye. Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so. Get medical attention immediately.

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

#### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation

In case of inhalation product may cause chemical burns of the respiratory tract.

#### Ingestion

May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

#### Skin contact

Causes severe skin burns.

#### Eye contact

Causes severe eye damage.

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

Notes to the physician	Treat Symptomatically.
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**Section 5: Fire-fighting measures****5.1 Extinguishing media**

Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet.

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

Hazardous combustion products	Hazardous decomposition products formed under fire conditions.
Unusual fire & explosion hazards	Acid will react with active metals to produce flammable hydrogen.
Specific hazards	During fire, gases hazardous to health may be formed. Contact with combustible material may cause fire.

**5.3 Advice for firefighters**

Special fire fighting procedures	If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water. Suppress (knock down) gasses/vapours/mists with a water spray.
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. Personal protective equipment 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**

For non-emergency personnel	Do not mix with other chemicals. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Follow safe handling advice and personal protective equipment recommendations for normal use of product. Do not touch spilled material.

**6.2 Environmental precautions**

Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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**6.3 Methods and material for containment and cleaning up**

Spill clean up methods	Ventilate and evacuate the area. Eliminate all ignition sources. DO NOT touch spilled material! Stop leak if possible without risk. Use non-metallic tools/containers for clean up. Absorb spillage with inert, damp, non-combustible material or use a liquid binding material. Place waste material into suitable labelled sealed containers for disposal. Remove waste promptly to a safe area. Flush with plenty of water to clean spillage area.
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**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.
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**Section 7: Handling and storage****7.1 Precautions for safe handling**

Handling	Read and follow manufacturer's recommendations. Use personal protective equipment, see Section 8. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment. Ensure adequate ventilation. If necessary, use local exhaust ventilation.
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Keep away from flammable materials and incompatible substances. Use only equipment and materials which are compatible with the product. Do not confine the product in a circuit, between closed valves, or in a container without a vent. Always wash hands after handling. Avoid splashes or spray in enclosed areas. Remove and wash contaminated clothing before reusing. Do not eat, drink or smoke when using the product.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage precautions

Keep locked up and out of reach of children. Store in tightly closed original container in a cool, dry and well-ventilated place. Keep away from flammable and combustible materials. Keep away from direct sunlight. Provide impermeable floor. Provide a catch-tank and anti-corrosion protected electrical equipment in a bunded area. Keep at temperatures of between : 15 - 25 °C

### Storage class

Corrosive storage

## 7.3 Specific end use(s)

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

### Usage description

Use only according to directions.

## Section 8: Exposure controls/Personal protection

### 8.1 Control parameters

Component	STD	TWA (8 Hrs)	STEL (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. Ireland, Occupational Exposure Limits 2020.

### 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

Not normally required when used at normal temperatures. 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. ABEK (EN 14387). Use respiratory protective components with combined A/B/E/KP filter(s) for organic/inorganic/acid/ammonia and particulates. Change filters frequently. 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). Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Gloves must be inspected prior to use.

Suggested material: Nitrile. Minimum layer thickness:  $\geq 0.35$  mm. Break through time: 480 min. Gloves must be inspected prior to use. Consult manufacturer for specific advice on material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

#### 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

Wear appropriate clothing to prevent any possibility of skin contact. Suggested PPE: chemical resistant full-length overalls and boots. The selected clothing must satisfy the European norm standard EN 943. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

<b>Hygiene measures</b>	DO NOT SMOKE IN WORK AREA! Wash hands after handling. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
<b>Process conditions</b>	Keep container tightly sealed when not in use. Ensure that eye flushing systems and safety showers are located close by in the work place.

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## Section 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Pale straw coloured
<b>Odour</b>	Slight chlorine odour.
<b>Odour threshold - lower</b>	No information available as testing has not been completed.
<b>Odour threshold - upper</b>	No information available as testing has not been completed.
<b>pH-Value, Conc. Solution</b>	>13
<b>pH-Value, Diluted solution</b>	Not applicable as the product is a concentrated solution.
<b>Melting point</b>	No information available as testing has not been completed.
<b>Initial boiling point and boiling range</b>	No information available as testing has not been completed.
<b>Flash point</b>	Non-Flammable
<b>Evaporation rate</b>	No information available as testing has not been completed.
<b>Flammability state</b>	The product is not flammable.
<b>Flammability limit - lower(%)</b>	Not applicable as the product is not flammable.
<b>Flammability limit - upper(%)</b>	Not applicable as the product is not flammable.
<b>Vapour pressure</b>	No information available as testing has not been completed.
<b>Vapour density (air=1)</b>	No information available as testing has not been completed.
<b>Relative density</b>	1.04 - 1.06 kg/l (at 20°C)
<b>Bulk density</b>	Not applicable as the product is a liquid.
<b>Solubility</b>	Soluble in water.
<b>Decomposition temperature</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.
<b>Auto ignition temperature (°C)</b>	Not applicable as the product is not flammable.
<b>Viscosity</b>	No information available as testing has not been completed.
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

### 9.2 Other information

<b>Molecular weight</b>	Not applicable as the product is a mixture.
<b>Volatile organic compound</b>	No information available as testing has not been completed.
<b>Other information</b>	None noted.

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**Section 10: Stability and reactivity**


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**10.1 Reactivity**

<b>Reactivity</b>	Reaction with acids. May be corrosive to metals.
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**10.2 Chemical stability**

<b>Stability</b>	Stability of the solution decreases under the action of heat, light, and in the presence of impurities (traces of iron, nickel, copper, cobalt, aluminium, manganese).
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**10.3 Possibility of hazardous reactions**

<b>Hazardous reactions</b>	For information on hazardous reactions see section 10.1.
<b>Hazardous polymerisation</b>	Unknown.
<b>Polymerisation description</b>	Not applicable.

**10.4 Conditions to Avoid**

<b>Conditions to avoid</b>	Heat, sparks, open flames, temperature extremes and direct sunlight. To avoid thermal decomposition do not overheat. Protect from static discharge.
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**10.5 Incompatible materials**

<b>Materials to avoid</b>	Acids ( violent decomposition with release of chlorine), Metals ( decomposition with formation of oxygen), Combustible material. Strong oxidising substances. Reducing agents.
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**10.6 Hazardous decomposition products**

<b>Hazardous decomposition products</b>	Chlorine, hypochlorous acid, sodium chlorate.
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**Section 11: Toxicological information**


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**11.1 Information on toxicological effects**

<b>Toxicological information</b>	No toxicological information for the overall finished product.
<b>Acute toxicity (Oral LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Dermal LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Inhalation LD50)</b>	No information available as testing has not been completed.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b>Skin corrosion/irritation</b>	The product is classified as a skin corrosion/irritation hazard.
<b>Respiratory sensitisation</b>	The product is not classified as a respiratory hazard.
<b>Skin sensitisation</b>	The product is not classified as a skin sensitisation hazard.
<b>Germ cell mutagenicity</b>	The product is not classified as a mutagen.
<b>Carcinogenicity</b>	The product is not classified as a carcinogen hazard.
<b>Specific target organ toxicity - Single exposure:</b>	
<b>STOT - Single exposure</b>	The product is not classified as a single exposure specific target organ toxin.
<b>Specific target organ toxicity - Repeated exposure:</b>	
<b>STOT - Repeated exposure</b>	The product is not classified as a repeat exposure specific target organ toxin.
<b>Inhalation</b>	In case of inhalation product may cause chemical burns of the respiratory tract.
<b>Ingestion</b>	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes severe eye damage.
<b>Waste management</b>	Dispose of in accordance with local and national regulations. When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Routes of entry</b>	Eyes, skin, ingestion or inhalation.
<b>Target organs</b>	Eyes, skin, digestive system, respiratory system.
<b>Aspiration hazards:</b>	The product is not classified as an aspiration hazard.
<b>Reproductive toxicity:</b>	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
sodium hypochlorite	5800.00mg/kg Mouse		

## Section 12: Ecological information

### 12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	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.
Eco toxicological information	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

### 12.2 Persistence and degradability

Degradability	The degradability of the product has not been stated.
Biological oxygen demand	No information available as testing has not been completed.
Chemical oxygen demand	No information available as testing has not been completed.

### 12.3 Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Bioaccumulation factor	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.

### 12.4 Mobility in soil

Mobility	Soluble in water.
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### 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

Other adverse effects	No information available.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Dodecyldimethylamine oxide	LC50 96 Hours 31.80ppm Brachydanio rerio (Zebra Fish)	EC50 48 Hours >3.90ppm Daphnia magna	
Sodium hydroxide	LC50 96 Hours 125.00mg/l Freshwater Fish		

## Section 13: Disposal considerations

Waste management	Dispose of in accordance with local and national regulations. When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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### 13.1 Waste treatment methods

Disposal methods	Dispose of waste and residues in accordance with local authority requirements. Dispose in a safe manner in accordance with local/national regulations.
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**Section 14: Transport information****14.1 UN number**

UN no. (ADR)	UN3266
UN no. (IMDG)	UN3266
UN no. (IATA)	UN3266

**14.2 UN proper shipping name**

ADR proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hypochlorite + Sodium hydroxide)
IMDG proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hypochlorite + Sodium hydroxide)
IATA proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S. (sodium hypochlorite + Sodium hydroxide)

**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	I
IMDG packing group	I
IATA packing group	I

**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 A803
Hazard no. (ADR)	88
Tunnel restriction code	(E)

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

Not applicable.

**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 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)  Workplace Exposure Limits Guidance Note EH40/2005.
Chemical safety assessment	No chemical safety assessment has been carried out.



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**Section 16: Other information**

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<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010
<b>Revision comments</b>	This is a second issue. [1]Information updated. [2]Information updated. [3]Information updated. [7]Information updated. [8]Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [14]Information updated. [15]Information updated.
<b>Revision date</b>	13 November 2020
<b>Revision</b>	2
<b>Safety data sheet status</b>	Approved.

**Hazard statements in full**

<b>EUH031</b>	Contact with acids liberates toxic gas.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H400</b>	Very toxic to aquatic life.
<b>H302</b>	Harmful if swallowed.
<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage.
<b>H290</b>	May be corrosive to metals.

**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.