

# Safety Data Sheet

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**ISSUE NO** : 01

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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY**

PRODUCT NAME	: <b>Sodium Hydroxide - solid</b>
DESCRIPTION	: Odourless white granules or flakes. For use in the Caterclean business to remove grease, fats, oils and light carbon deposits from cooking equipment, food preparation equipment, washing and waste disposal areas.
COMPANY	: Rentokil Initial UK Ltd, Hygiene Division, Felcourt, East Grinstead, West Sussex. RH19 2JY. England. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229.

**2. HAZARDS IDENTIFICATION**

CLASSIFICATION OF PRODUCT (SUPPLY - Use) UK CHIP 3 (The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002) / EC Directive 1999/45.  <b>C – CORROSIVE</b> : R35 : Causes severe burns.	DANGER SYMBOL (UK CHIP 3) : (Black on orange background)  
ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (see also box 11) :  Intense heat may be generated on dissolving in water and contact with some metals may produce flammable hydrogen gas.  Contact with eyes and skin will result in serious burns and inhalation of any dust will damage the respiratory tract. Ingestion may cause vomiting and ultimately death.  Adverse effects on the environment are unlikely, provided that the product is used as intended.	<b>CORROSIVE</b>

**3. COMPOSITION / INFORMATION ON INGREDIENT(S)**

% w/w	COMMON*/CHEMICAL NAME, ELINCS / EINECS AND CAS No OF INGREDIENT(S)	UK CHIP 3 / EC 1999/45 CLASSIFICATION OF INGREDIENT(S)
> 50 ≤ 100	Sodium hydroxide EINECS: 215-185-5 CAS: 1310-73-2	C - Corrosive : R35 : Causes severe burns.

#### 4. FIRST-AID MEASURES (see also "adverse effects" in box 2)

INHALATION (Breathing)	: Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
EYE CONTACT	: Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
SKIN CONTACT	: Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
INGESTION (Swallowing)	: Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious, give patient up to 1 pint of water to drink, unless there is evidence of burns or difficulty in swallowing. Seek medical attention.
EMERGENCY EQUIPMENT SUGGESTED	: Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice "First-aid at Work".
NOTE TO DOCTOR	: For further information contact the National Poisons Information Service in the UK.

#### 5. FIRE-FIGHTING MEASURES

FIRE EXTINGUISHER - TYPES	: Use water-foam, water-fog or carbon dioxide extinguishes dependant upon burning material.
SPECIAL FIRE-FIGHTING PROCEDURES	: Wear suitable personal protective equipment.
SPECIAL EXPOSURE HAZARDS	: Intense heat may be generated upon dissolving in water

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (see also box 8)	: Wear suitable personal protective equipment.
PROCEDURE (see also box 13)	: Gather spilled product together by and transfer to a suitable container for subsequent disposal. Any residues may be flushed away with excess water. DO NOT contaminate watercourses or ground with large quantities of undiluted product.

#### 7. HANDLING AND STORAGE (see also box 8)

HANDLING	: Wear suitable gloves and eye/face protection. Bags should only be opened, as required and promptly emptied as material in open bags will absorb carbon dioxide and moisture from the atmosphere in sufficient quantities to form the caustic liquor.
STORAGE	: Store in original container in a cool, dry, ventilated place out of reach of children and away from food, drink and animal feeding stuffs.  Store away from acids.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (see also box 7)

OCCUPATIONAL EXPOSURE LIMITS	: OES for sodium hydroxide is 2 mg/m <sup>3</sup> short-term exposure (15 minute reference period).
ENGINEERING CONTROLS	: Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	: Wear suitable eye protection such as goggles.
HAND PROTECTION	: Wear suitable hand protection such as rubber / PVC gloves
SKIN PROTECTION	: Wear suitable skin protection such as PVC or rubber boots and coveralls.
BREATHING PROTECTION	: Wear suitable respiratory protection such as a facemask in case of dust.
ENVIRONMENTAL EXPOSURE CONTROLS	: Product should be used in accordance with instructions given in Hygiene Technical Manual and any spillage should be dealt with as a priority in order that contamination of watercourses or ground is avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	: Odourless white granules or flakes.		
FLASH POINT	: Not applicable.	SOLUBILITY IN WATER	: Soluble : 126 g / 100 ml
FLAMMABILITY	: Non flammable.	SOLUBILITY IN FAT	: No data available.
AUTOFLAMMABILITY	: Not applicable.	PARTITION COEFFICIENT	: Not data available.
VAPOUR PRESSURE	: Not applicable.	BOILING POINT/RANGE	: 1390°C
DENSITY	: 2.13	MELTING POINT/RANGE	: 318°C
OXIDISING PROPERTIES	: None known.	pH	: > 13
EXPLOSIVE PROPERTIES	: Can react violently or explosively with many chemicals.	VAPOUR DENSITY	: Not applicable.
VISCOSITY	: Not applicable.	EVAPORATION RATE	: Not applicable.
OTHER DATA	: None known.		

## 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	: Avoid storage in damp conditions and extremes of temperature, eg. Below 0°C and above 40°C.
MATERIALS TO AVOID	: Avoid contact with wool, leather and some metals such as aluminium, tin, lead and zinc. Avoid contact with acids.
HAZARDOUS BREAKDOWN PRODUCTS	: Contact with some metals may produce flammable hydrogen gas.

## 11. TOXICOLOGICAL INFORMATION (see also box 2)

ACUTE TOXICITY	Oral	: Rat LD <sub>50</sub> : 500 mg/kg
	Inhalation	: No data available.
	Dermal	: No data available.
CORROSIVITY / IRRITATION	Skin	: Causes severe burns on contact with skin.
	Eyes	: Causes severe burns on contact with eyes.
	Respiratory tract	: Causes severe burns on contact with respiratory system.
SENSITISATION	Skin	: Contains no known skin sensitisers.
	Respiratory	: Contains no known respiratory sensitisers.
REPEATED-DOSE TOXICITY		: Not known to have any effects relating to repeated-dose toxicity.
MUTAGENICITY		: Not known to have a mutagenic effect.
CARCINOGENICITY		: Not known to have a carcinogenic effect.
REPRODUCTIVE	Fertility	: Not known to be toxic to the reproductive system, and having effects on fertility.
TOXICITY	Developmental	: Not known to be toxic to the reproductive system, and having effects on development
OTHER INFORMATION		: No specific antidote known.

## 12. ECOLOGICAL INFORMATION

GENERAL INFORMATION	: The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
ECOTOXICITY DATA	: No data available.
MOBILITY (of appropriate constituents)	: Soluble in aqueous systems.
PERSISTENCE AND DEGRADABILITY (of appropriate constituents)	: Will disperse as ions.
BIOACCUMULATIVE POTENTIAL (of appropriate constituents)	: None known.
ENVIRONMENTAL CONSIDERATIONS	: DO NOT contaminate watercourses or ground. This material is not classified as dangerous to the environment. Thus, when supplied, used and disposed of as directed this product is not expected to present a danger to the environment.
OTHER ADVERSE EFFECTS	: None known.

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	: Waste should be disposed of in accordance with local, State or National requirements.
DISPOSAL OF CONTAINERS	: Empty containers should be disposed of in accordance with local, State or National requirements.
UK SPECIAL WASTE REGULATIONS, 1996	: <u>Hazard Code</u> : H8 – Corrosive <u>Components making the waste special and their concentrations</u> : % w/w Sodium hydroxide > 50 ≤ 100
NOTE FOR DISPOSAL	: Disposal should be in accordance with local, State or National requirements. For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: 0845 9333111.

#### 14. TRANSPORT INFORMATION (International unless otherwise indicated)

<u>UN NUMBER</u> : UN 1823	<u>UK HAZCHEM EAC</u> : 2X	<u>ADR HIN</u> : 80
<u>UK CDGRoad Transport Category</u> : 2	<u>Tremcard Reference No.</u> : CEFIC TEC (R)- 121	<u>IMDG EMS</u> : 8-06
<u>UK CDGCPL2 CARRIAGE</u> :		
CLASS :	8	
PROPER SHIPPING NAME :	Sodium hydroxide, solid	
PACKING GROUP :	II	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30 kg.	
SPECIAL REQUIREMENTS :	Not required.	
LABELS :	Corrosive diamond unless supplied under Limited Quantity Exemptions.	
<u>IMDG 2000 (SEA) CARRIAGE</u> :		
CLASS :	8	
PROPER SHIPPING NAME :	Sodium hydroxide, solid	
PACKING GROUP :	II	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30 kg. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required.	
LABELS :	Corrosive diamond unless supplied under Limited Quantity Exemptions.	
<u>ADR 2001 (ROAD) CARRIAGE</u> :		
CLASS :	8	
PROPER SHIPPING NAME :	Sodium hydroxide, solid	
PACKING GROUP :	II	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 3 kg. Maximum quantity per outer package is 12 kg. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required.	
LABELS :	Corrosive diamond unless supplied under Limited Quantity Exemptions.	

#### 15. REGULATORY INFORMATION

INDICATION OF DANGER	HEALTH AND SAFETY INFORMATION (see also box 2)
<b>C – CORROSIVE</b> : R35 : Causes severe burns.	
SAFETY PHRASES : S1/2 : Keep locked up and out of the reach of children.	
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
S37/39 : Wear suitable gloves and eye/face protection.	
S45 : In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).	
LEGISLATION : This product is classified, in the UK, under The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 (CHIP 3), as dangerous for supply.	
This product is classified, in the UK, under the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles CDGCPL2 Regulations 1996, as dangerous for carriage.	

#### 16. OTHER INFORMATION and indication of revisions

The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations 1999.
This product is to be used in accordance with the label and the Rentokil Hygiene Technical Manual.

SDS No. 798

**SODIUM HYDROXIDE - SOLID – CHIP 3**

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<b>Before using any product, ensure that you read and understand its label.</b> The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.
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