

Safety Data Sheet

DATE : 01 : 07 : 2002

REVISION (see box 16)


ISSUE NO : 05

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME	: STRIPPING SOLUTION
DESCRIPTION	: A clear brown solvent based liquid with a characteristic solvent type odour. Used to remove coatings from baking trays
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.	DANGER SYMBOL (UK CHIP 3) : (Black on orange background)
C - CORROSIVE	: R35 : Causes severe burns.	
X_n - HARMFUL	: R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.	
ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (see also box 11) :		CORROSIVE
<p>In the event of a fire carbon monoxide and oxides of nitrogen may be evolved. Contact should be avoided with materials such as aluminium and zinc.</p> <p>Contact with eyes and skin causes severe burns. Ingestion may result in sore throat, difficulty in swallowing, nausea and vomiting. Inhalation may cause damage to the upper respiratory tract. In severe cases, corrosion of the upper digestive tract may occur.</p> <p>Contamination of watercourses or ground water with large quantities of undiluted product may lead to adverse environmental effects.</p>		

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	2-butoxyethanol */ Ethylene glycol monobutyl ether EINECS: 203-905-0 CAS: 111-76-2	X _n - Harmful :R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed. X _i - Irritant :R37 : Irritating to respiratory system.
> 10 ≤ 25	N-methylpyrrolidone EINECS: 212-828-1 CAS: 872-50-4	X _i - Irritant :R36/38 : Irritating to eyes and skin.
> 2.5 ≤ 10	Potassium hydroxide EINECS: 215-181-3 CAS: 1310-58-3	C - Corrosive : R35 : Causes severe burns. X _n - Harmful : R22 : Harmful if swallowed.

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 carbon dioxide, dry powder, foam or water-fog extinguishers.
SPECIAL FIRE-FIGHTING PROCEDURES	: Wear self-contained breathing apparatus and suitable personal protective equipment.
SPECIAL EXPOSURE HAZARDS	: Carbon monoxide and oxides of nitrogen may be evolved in the event of a fire.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (see also box 8)	: Wear suitable personal protective equipment.
PROCEDURE (see also box 13)	: Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal. DO NOT contaminate watercourses or ground with large quantities of undiluted product.

7. HANDLING AND STORAGE (see also box 8)

HANDLING	: When using do not eat or drink. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water for at least 15 minutes. Wear suitable clothing gloves and eye/face protection. All unauthorised personnel to be excluded during treatment.
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.

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

OCCUPATIONAL EXPOSURE LIMITS	: OES for 2-butoxyethanol is 123 mg/m ³ long-term exposure (8 hour Time Weighted Average) - can be absorbed through the skin and biological monitoring may be appropriate and for potassium hydroxide is 2 mg/m ³ short-term exposure (15 minute reference period) and for N-methylpyrrolidone is 103 mg/m ³ long-term exposure (8 hour TWA) and 309 mg/m ³ short-term exposure (15 minute reference period) - can be absorbed through the skin.
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 or face visor.
HAND PROTECTION	: Wear suitable hand protection such as synthetic rubber/PVC gloves or gauntlets.
SKIN PROTECTION	: Wear suitable skin protection such as coveralls and chemically resistant footwear
BREATHING PROTECTION	: Wear suitable respiratory protection.
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	: A clear, brown, solvent-based liquid with a characteristic solvent-type odour.		
FLASH POINT	: 68 - 88°C	SOLUBILITY IN WATER	: Soluble.
FLAMMABILITY	: Non-flammable.	SOLUBILITY IN FAT	: Partially miscible.
AUTOFLAMMABILITY	: Not determined.	PARTITION COEFFICIENT	: Not applicable.
VAPOUR PRESSURE	: < 100 Pa at 20°C	BOILING POINT/RANGE	: Starts at ca. 141°C (potassium hydroxide)
SPECIFIC GRAVITY	: 0.99 at 20°C	MELTING POINT/RANGE	: Not applicable.
OXIDISING PROPERTIES	: None known.	pH	: 13.2 at 20°C.
EXPLOSIVE PROPERTIES	: None known.	VAPOUR DENSITY	: Not determined
VISCOSITY	: Not determined	EVAPORATION RATE	: Not determined
OTHER DATA	: None known.		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	: Avoid extremes of temperature, eg. below 0°C and above 40°C.
MATERIALS TO AVOID	: Avoid contact with materials such as aluminium and zinc.
HAZARDOUS BREAKDOWN PRODUCTS	: Carbon monoxide and oxides of nitrogen may be evolved in the event of a fire.

11. TOXICOLOGICAL INFORMATION (see also box 2)

ACUTE TOXICITY	Oral	: Harmful if swallowed. Rat LD ₅₀ for 2-butoxyethanol : 2.68 ml/kg and for potassium hydroxide: 365 mg/kg.
	Inhalation	: Harmful by inhalation. Rat LC ₅₀ for N-methylpyrrolidone : >5.1 mg/l / 4h (spray)
	Dermal	: Harmful to skin Rabbit LD ₅₀ for 2-butoxyethanol : 0.63 ml/kg.
CORROSIVITY / IRRITATION	Skin	: Causes severe burns to skin. Chronic skin exposure may cause dermatitis.
	Eyes	: Causes severe burns to eyes.
	Respiratory tract	: Causes severe burns Mists and vapours of potassium hydroxide may cause damage to upper respiratory tract and even lung tissue
SENSITISATION	Skin	: Contains no known skin sensitisers.
	Respiratory	: Contains no known respiratory sensitisers.
REPEATED-DOSE TOXICITY		: Product does not contain any components known to have any effects relating to repeated-dose toxicity.
MUTAGENICITY		: Product does not contain any components known to have a mutagenic effect.
CARCINOGENICITY		: Product does not contain any components known to have a carcinogenic effect.
REPRODUCTIVE TOXICITY	Fertility	: Product does not contain any components known to be toxic to the reproductive system, and having effects on fertility.
	Developmental	: Product does not contain any components 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 with large quantities of undiluted product.
ECOTOXICITY DATA	: 2-butoxyethanol : LC ₅₀ fathead minnow : 1700mg/l. EC ₅₀ <i>Daphnia magna</i> : > 1000mg/l, N-methyl-pyrrolidone : LC ₅₀ 96hr fish : 400mg/l, LC ₅₀ 72 hr <i>Daphnia</i> : > 1000 mg/l. Potassium hydroxide : LC ₅₀ 96hr mosquito fish : 39-56 mg/l.
MOBILITY (of appropriate constituents)	: All components are soluble in water and are therefore expected to be mobile in this phase.
PERSISTENCE AND DEGRADABILITY (of appropriate constituents)	: N-methyl-pyrrolidone and potassium hydroxide are readily biodegradable.
BIOACCUMULATIVE POTENTIAL (of appropriate constituents)	: No data available.
ENVIRONMENTAL CONSIDERATIONS	DO NOT contaminate watercourses or ground. This product does not contain any substances that are 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> H5 – Harmful, H8 – Corrosive <u>Components making the waste special and their concentrations :</u> 2-butoxyethanol > 50 ≤ 100 % w/w Potassium Hydroxide > 2.5 ≤ 10 % w/w
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)

UN NUMBER : UN1760	UK HAZCHEM EAC : 2X	ADR HIN : 80
UK CDGRoad Transport Category : 2	Tremcard Reference No. : CEFIC TEC (R)- 80G20	IMDG EMS :8-15
UK CDGCPL2 CARRIAGE :		
CLASS :	8	
PROPER SHIPPING NAME :	Corrosive liquid N.O.S (contains potassium hydroxide)	
PACKING GROUP :	II	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 500 ml. Maximum quantity per outer package is 30 kg.	
SPECIAL REQUIREMENTS :	Not required	
LABELS :	Corrosive, unless supplied under limited quantity exemptions.	
IMDG 2000 (SEA) CARRIAGE :		
CLASS :	8	
PROPER SHIPPING NAME :	Corrosive liquid N.O.S (contains potassium hydroxide)	
PACKING GROUP :	II	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 500 ml. Maximum quantity per outer package is 30 kg. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required	
LABELS :	Corrosive, unless supplied under limited quantity exemptions.	
ADR 2001 (ROAD) CARRIAGE :		
CLASS :	8	
PROPER SHIPPING NAME :	Corrosive liquid N.O.S (contains potassium hydroxide)	
PACKING GROUP :	II	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 1 litres. Maximum quantity per outer package is 4 litres. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required	
LABELS :	Corrosive, unless supplied under limited quantity exemptions.	

15. REGULATORY INFORMATION

INDICATION OF DANGER	HEALTH AND SAFETY INFORMATION (see also box 2)	
C - CORROSIVE	: R35	: Causes severe burns
X_n - HARMFUL	: R20/21/22	: Harmful by inhalation, in contact with skin and if swallowed.
SAFETY PHRASES :	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 water
	S36/37/39	: Wear suitable protective clothing, gloves and eye/face protection
	S45	: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
	S60	: This material and its container must be disposed of as hazardous waste.
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) does not 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.
Changes have been made to the content of boxes 2, 3, 4, 8, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04.

SDS No. 211

STRIPPING SOLUTION - CHIP 3**PAGE: 4 of 4**

Before using any product, ensure that you read and understand its label. 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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