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Page: 1

Compilation date: 01/08/2008

Revision date: 20/02/2018

Revision No: 6

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

1.1. Product identifier

Product name: REMOVE

Product code: 102

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

Use of substance / mixture: PC35: Washing and cleaning products (including solvent based products).

1.3. Details of the supplier of the safety data sheet

Company name:	Clover Chemicals Ltd
	Clover House
	Macclesfield Road
	Whaley Bridge, High Peak
	Derbyshire
	SK23 7DQ
	UK
Tel:	+44 (0) 1663 733114
Fax:	+44 (0) 1663 733115
Email:	technical@cloverchemicals.com

1.4. Emergency telephone number

Emergency tel: NHS 111

NHS Direct Wales 08454647

ROI 01 809 2166

Section 2: Hazards identification

2.1. Classification of the substance or mixture Classification under CLP: Skin Corr. 1A: H314; Aquatic Chronic 3: H412; -: EUH208

Most important adverse effects: Contains limonene (citrus dulcis). May produce an allergic reaction. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains limonene (citrus dulcis). May produce an allergic reaction.

H314: Causes severe skin burns and eye damage.

H412: Harmful to aquatic life with long lasting effects.

REMOVE

Page: 2

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements:P102: Keep out of reach of children.P262: Do not get in eyes, on skin, or on clothing.P280: Wear protective gloves.P282: Wear eye protection.P264: Wash hands thoroughly after handling.P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Removecontact lenses, if present and easy to do. Continue rinsing.P307+313: If eye irritation persists: Get medical attention.P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinseskin with water/shower.P333+313: If skin irritation or rash occurs: Get medical attention.P405: Store locked up.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

* Hazardous ingredients:

2-BUTOXYETHANOL - REACH registered number(s): 01-2119475108-36-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319;	1-10%
		Skin Irrit. 2: H315		

SODIUM HYDROXIDE

271 705 1	69609 69 4			1 100/	
B-ALANINE,N-C	OCO ALKYL DEF	RIVATIVES, SODIUM SALTS			
215-185-5	1310-73-2	-	Skin Corr. 1A: H314	1-10%	

271-795-1	68608-68-4	-	Eye Irrit. 2: H319	1-10%	
C9-11 ALCOHOL	ETHOXYLATE				

-	68439-46-3	-	Eye Dam. 1: H318; Acute Tox. 4: H302	1-10%
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Page: 3

215-181-3	1310-58-3	-	Acute Tox. 4: H302; Skin Corr. 1A: H314	<1%
IMONENE (C	ITRUS DULCIS)			
232-433-8	8028-48-6	-	Flam. Liq. 3: H226; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317; Asp. Tox. 1: H304	<1%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

- **Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
 - **Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
 - Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

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

Skin contact: There may be irritation and redness at the site of contact.

- **Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
 - **Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with

skin and eyes.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn

leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed.

Suitable packaging: Stainless steel. Polyethylene.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

2-BUTOXYETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	25 ppm	50 ppm	-	-

SODIUM HYDROXIDE

UK - 2 mg/m3	
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POTASSIUM HYDROXIDE UK 2 mg/m3 _ _ _ **DNEL/PNEC Values** DNEL / PNEC No data available. 8.2. Exposure controls Engineering measures: Ensure there is sufficient ventilation of the area. Respiratory protection: Respiratory protection not required. Hand protection: Rubber gloves. Gloves (alkali-resistant). Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand. Skin protection: Protective clothing. Section 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties State: Liquid Colour: Red Odour: Characteristic odour Evaporation rate: Moderate **Oxidising:** Non-oxidising (by EC criteria) Solubility in water: Soluble Viscosity: Non-viscous Boiling point/range°C: 100 Melting point/range°C: 0 Flammability limits %: lower: Not applicable. upper: Not applicable. Flash point°C: Not applicable. Part.coeff. n-octanol/water: Not applicable. Autoflammability°C: Not applicable. Vapour pressure: Not applicable. Relative density: 1.073 **pH:** 13.1 VOC g/l: 36.5

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Page: 5

REMOVE

Page: 6

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2-BUTOXYETHANOL

IVN	RAT	LD50	307	mg/kg
ORL	MUS	LD50	1230	mg/kg
ORL	RAT	LD50	470	mg/kg

SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

B-ALANINE, N-COCO ALKYL DERIVATIVES, SODIUM SALTS

ORL - LD50	>5000	mg/kg
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POTASSIUM HYDROXIDE

ORL RAT LD50	273	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be pain and redness. The eyes may water profusely. There may be severe pain.
	The vision may become blurred. May cause permanent damage.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain
	may occur.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

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Page: 7

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

B-ALANINE, N-COCO ALKYL DERIVATIVES, SODIUM SALTS

-	48H EC50	18	mg/l
-	48H EC50	97.5	mg/l

C9-11 ALCOHOL ETHOXYLATE

		FISH	96H LC50	1-10	mg/l	
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12.2. Persistence and degradability

Persistence and degradability: Biodegradable. The surfactants contained in this preparation comply with the biodegradability

criteria as laid down in regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations

regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1760

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, N.O.S.

(SODIUM HYDROXIDE (2%))

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14.3. Transport hazard class(es	5)	
Transport class:	8	
14.4. Packing group		
Packing group:	III	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for u	ser	
Special precautions:	No special precautions.	
Tunnel code:		
Transport category:	3	
Section 15: Regulatory information	ation	
15.1 Safety health and environ	nmental regulations/legislation specific for the substance or mixture	
15.1. Galety, health and environ		
15.2. Chemical Safety Assessn	nent	
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture by	,
	the supplier.	
Section 16: Other information		
Other information		
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No	
	2015/830.	
	* indicates text in the SDS which has changed since the last revision.	
Phrases used in s.2 and s.3:	EUH208: Contains <name of="" sensitising="" substance="">. May produce an allergic reaction.</name>	
	H226: Flammable liquid and vapour.	
	H302: Harmful if swallowed.	
	H304: May be fatal if swallowed and enters airways.	
	H312: Harmful in contact with skin.	
	H314: Causes severe skin burns and eye damage.	
	H315: Causes skin irritation.	
	H317: May cause an allergic skin reaction.	
	H318: Causes serious eye damage.	
	H319: Causes serious eye irritation.	
	H332: Harmful if inhaled.	
	H400: Very toxic to aquatic life.	
	H410: Very toxic to aquatic life with long lasting effects.	
	H412: Harmful to aquatic life with long lasting effects.	
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive and	
	shall be used only as a guide. This company shall not be held liable for any damage resulti	ng
	from handling or from contact with the above product.	[final page]

Page: 8