

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name : Vwt dq"('Ck'k'pvcng"U{ ugo 'Ergcpgt
Product code :

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

Product use : Cleaning fluid

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: """"Egptcn'Uqnwkpup"1 D+"Nf
Uqn'Z'J qwug
Y kpf o kn'Ncpg
P qtvqp
F qpecvgt
F P 8"; CV

Tel. : +44 (0) 1302 708895
Fax. : +44 (0) 1302 708895

Email (for SDSs) : info@uqiz uqnwkpup"e qo

1.4 Emergency tel. no. : +44 (0) 1302 708895 (Office hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Sk.Corr.1B; H314
STOT SE3; H335

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC:

Signal word: Danger

Pictogram(s):

Contains: Monoethanolamine



H-Statements: H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation

P-Statements: P261 Avoid breathing vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists, get medical advice/attention.

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2.3 Other hazards No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
MONOETHANOLAMINE	141-43-5 205-483-3 -	Acute Tox.4; H302+H312+H332 Sk.Corr.1B; H314 STOT SE3; H335 (C ≥ 5%)	1-5%
TRIETHANOLAMINE	102-71-6 203-049-8 -	Eye Irrit.2; H319	1-5%
2-BUTOXYETHANOL (BUTYL GLYCOL)	111-76-2 203-905-0 01-2119475108-36-xxxx	Acute Tox.4; H302+H312+H332 Sk.Irrit.2; H315 Eye Irrit 2; H319	1-5%

See Section 16 for the full text of the H-statements noted above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person. This product is of low acute toxicity.

Skin contact: Wash with plenty of water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air if affected and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: May cause burns or irritation to skin, eyes or nose and throat.

4.3 Indication of any immediate medical attention and special treatment needed: See information above.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable; use appropriate media for surrounding area.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Prevent product from entering drains. If product enters waterways, inform relevant authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Protect from frost, heat and sunlight. Incompatible with oxidising agents. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters**

Chemical name	8hr TWA	15min STEL	Comment	Reference
Monoethanolamine	2.5 mg/m ³ (1 ppm)	7.65mg/m ³ (3 ppm)	Sk	EH40/2005
2-Butoxyethanol	123 mg/m ³ (25 ppm)	246 mg/m ³ (50 ppm)	Sk, BMGV	EH40/2005

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: Unlikely to be necessary in normal circumstances.

Hand protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time \geq 480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice. (Sk) noted above means can be absorbed through skin.

Eye protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN 166.

Skin and body protection: General workwear.

8.2 Exposure controls (continued)

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

State and colour	Colourless liquid
Odour	Mild
Odour Threshold	No data available
Flammability	Non-Flammable
Flash point	No data available
Lower explosion limit	0.8%
Upper explosion limit	10.6%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	>230°C
Oxidising properties	Non-oxidising
Solubility in water	Soluble
Solubility in other solvents	Alcohols.
pH	12.0
Melting point/range	No data available
Boiling point/range	No data available
Density	1.0 approx.
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	No data available
Evaporation rate	No data available

9.2 Other information No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Acids. Oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
2-Butoxyethanol	300-2000 mg/kg (Rat)	No data available	1000-2000 mg/kg (Rat)

Skin corrosion/irritation:	May cause skin burns or irritation with prolonged exposure.
Serious eye damage/eye irritation:	May cause eye damage or irritation.
Respiratory or skin sensitisation:	Not expected to be a sensitiser.
Repeated dose toxicity:	Repeated skin contact can cause defatting leading to dermatitis.
Carcinogenicity:	Not expected to be carcinogenic.
Mutagenicity:	Not expected to be mutagenic.
Toxicity for reproduction:	Not expected to be a hazard.
Specific target organ toxicity (STOT):	No data available.

Further information

The product as a whole may cause irritation of upper respiratory tract if exposed to high levels of vapour.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
2-Butoxyethanol	Daphnia	EC50 24h	>100 mg/l
	Fish	LC50 96h	>100 mg/l
	Algae	EC50 7d	>100 mg/l

12.2 Persistence and degradability Expected to be readily biodegradable.

12.3 Bioaccumulative potential Low bioaccumulation potential.

12.4 Mobility in soil Soluble in water.

12.5 Results of PBT and vPvB assessment Contains no PBT or vPvB substances.

12.6 Other adverse effects None expected.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.
Do not dispose of together with household waste. Contact licensed waste disposal company.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn or use a cutting torch on the empty container.

14. TRANSPORT INFORMATION

- 14.1 UN number** ADR/RID/ADN; IMDG; ICAO: Not classified as dangerous goods.
- 14.2 UN proper shipping name:** Not classified as dangerous goods.
- 14.3 Transport hazard class(es) :** Not classified as dangerous goods.
- 14.4 Packing Group:** Not classified as dangerous goods.
- 14.5 Environment hazards** Marine Pollutant: No
- 14.6 Special precautions for user :** Not classified as dangerous goods.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (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.

Volatile Organic Compounds (VOC) content: 50 g/l. (Directive 1999/13/EC)

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) No.453/2010.

Full text of H-statements referred to under sections 2 and 3

- H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation

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Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.

STOT: Single Target Organ Toxicity (Section 11).

TWA: Time-weighted average. (Section 8).

STEL: Short-term exposure limit. (Section 8).

EC50: Effective Concentration, 50 percent. (Section 12).

LC50: Lethal Concentration, 50 percent. (Section 11/12).

LD50: Lethal Dose, 50 percent. (Section 11).

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 resulting from handling or from contact with the above product.

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