

KNIGHT SHIELD 7834

EYE CONTACT

May irritate eyes. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

By heating and fire, toxic vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge to the aquatic environment.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use non sparking handtools and explosion-proof electric equipment. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Eliminate all sources of ignition. Read and follow manufacturer's recommendations. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash hands after handling.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm	274 mg/m3	100 ppm	548 mg/m3	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. Seek advice from supervisor on the companies' respiratory protection standards.

KNIGHT SHIELD 7834**HAND PROTECTION**

Use protective gloves made of: Viton rubber (fluor rubber). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid		
COLOUR	Grey		
ODOUR	Slight odour		
SOLUBILITY	Insoluble in water		
BOILING POINT (°C)	137°C - 143°C	RELATIVE DENSITY	1.2
FLASH POINT (°C)	25°C	AUTO IGNITION TEMPERATURE (°C)	500°C
FLAMMABILITY LIMIT - LOWER(%)	1.1%	FLAMMABILITY LIMIT - UPPER(%)	7.0%

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

By heating and fire, toxic vapours/gases may be formed.

11 TOXICOLOGICAL INFORMATION**INHALATION**

May cause irritation to the respiratory system.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Prolonged and frequent contact may cause redness and irritation.

EYE CONTACT

May irritate eyes.

Name	BUTYL METHACRYLATE (ISO)
Toxic Dose 1 - LD 50	11990 mg/kg (oral-mouse)
Toxic Dose 2 - LD 50	1340 mg/kg (ipr-mouse)
Name	2-METHOXY-1-METHYLETHYL ACETATE
Toxic Dose 1 - LD 50	8532 mg/kg (oral rat)
Toxic Dose 2 - LD 50	750 mg/kg (ipr-mouse)

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

BIOACCUMULATION

Accumulates in soil and sediment.

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13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

UK ROAD CLASS	3		
PROPER SHIPPING NAME	ADHESIVES		
UN NO. ROAD	1133	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	30	ADR LABEL NO.	3
HAZCHEM CODE	3YE	CEFIC TEC(R) NO.	30GF1-III, 30GF1-sp
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1133	IMDG CLASS	3
IMDG PACK GR.	III	EMS	F-E, S-D
UN NO. AIR	1133	AIR CLASS	3
AIR PACK GR.	III		

15 REGULATORY INFORMATION

RISK PHRASES

R10	Flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour.
S24/25	Avoid contact with skin and eyes.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

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REVISION COMMENTS

This is first issue.

REVISION DATE

01-2009

RISK PHRASES IN FULL

R10	Flammable.
R65	Harmful: may cause lung damage if swallowed.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.