

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
Exposure Hazards:	Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mix. Vapour may travel considerable distance to source of ignition and flash back.
Personal Protection:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. SPILLAGE AND ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of the liquid. Eliminate all sources of ignition.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean up procedures:	Absorb into dry sand or earth. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in the clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling Requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Workplace exposure limits

WEL (8 hr exposure limit):	350 mg/m ³
WEL (15 min exposure limit):	1050 mg/m ³

Hazardous ingredients:

CYCLOHEXANE

WEL (8 hr exposure limit):	350 mg/m ³
WEL (15 min exposure limit):	1050 mg/m ³

MIXED ALIPHATIC HYDROCARBONS

WEL (8 hr exposure limit):	1000 mg/m ³
WEL (15 min exposure limit):	1000 mg/m ³

ETHYL METHYL KETONE

WEL (8 hr exposure limit):	600 mg/m ³
WEL (15 min exposure limit):	899 mg/m ³

ETHYL ACETATE

WEL (8 hr exposure limit):	200 ppm
WEL (15 min exposure limit):	400 ppm

8. EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT cont

Engineering Measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory Protection:	If exposure levels are likely to be exceeded, use full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.
Hand Protection:	Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves.
Eye Protection:	Safety glasses. Ensure eye bath is to hand.
Skin Protection:	Protective clothing.

9. PHYSICAL CHARACTERISTICS

State:	Liquid
Colour:	Yellow - Brown
Odour:	Characteristic
Evaporation Rate:	Fast - VOC content 74.9%
Oxidising:	Non-oxidising (by EC Criteria)
Solubility in Water:	Insoluble
Viscosity:	Viscous
Viscosity value:	> 40 SEC
Viscosity test method:	Flow time in seconds in a 3 min ISO cup (ISO 2431)
Boiling point / range °C:	60
Flammability limits %: Lower:	0.6
Flammability limits %: Upper:	11.5
Flash Point °C:	-30
Auto flammability °C:	200
Vapour pressure:	92kPa@50degC
Relative density:	0.85

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Stable at room temperature.
Conditions to avoid:	Heat. Hot surfaces. Sources of ignition. Flames.
Materials to avoid:	Strong oxidising agents. Strong acids.
Haz.decomp.products:	In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	CYCLOHEXANE		
	ORL MUS	LD50	813 mg/kg
	ORL RAT	LD50	12705 mg/kg
	MIXED ALIPHATIC HYDROCARBONS		
	ORL RAT	LD50	> 5000 mg/kg
	ETHYL ACETATE		
	ORL MUS	LD50	4100 mg/kg
	ORL RAT	LD50	5620 mg/kg
	SCU RAT	LDLO	5 gm/kg

Routes of exposure: See section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Volatile

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Arrange for disposal by a licenced waste disposal company.

Disposal of Packaging: Arrange for disposal by a licenced waste disposal company.

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

14. TRANSPORTATION INFORMATION

ADR / RID

Un No:	1133	ADR Class:	3
Packing group:	II	Classification code:	F1
Shipping name:	ADHESIVES		
Labelling:	3	Hazard ID No:	33



IMDG / IMO

Un No:	1133	Class:	3
Packing group:	II	EmS:	F-E,S-D
Marine Pollutant:	No	Labelling:	3

IATA / ICAO

Un No:	1133	Class:	3
Packing group:	II	Packing instructions:	305(P&CA); 307(CAO)
Labelling:	3		

15. REGULATORY INFORMATION

Hazard Symbols:



Highly Flammable



Irritant



Dangerous for the environment

Risk Phrases	R36/38	Irritating to eyes and skin.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the environment.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.

Safety Phrases	S2	Keep out of reach of children.
	S16	Keep away from sources of ignition - No smoking.
	S61	Avoid release to the environment. Refer to special instructions / safety data sheets.
	S23	Do not breathe vapour.
	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
	S24/25	Avoid contact with skin and eyes.

Note: The regulatory information given above only indicates the principle regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or legislation.

16. OTHER INFORMATION

Risk phrases used in s.2:

R11	Highly Flammable.
R38	Irritating to skin.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.

Information on this Health and Safety Data Sheet is drawn from a variety of sources, including raw material suppliers data, and other published sources.

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