



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PERMOSEAL (PTY) LTD	Tel.	+27 (0)21 555-7400
Beverley Close	Fax	+27 (0)21 552-1848
Montague Gardens, 7441	Toll-free No.	0800 222 400
Cape Town	Website	www.alcolin.com
TRADE NAME ALCOLIN CONTACT 652	Chemical abstract no.	Mixture
Chemical family Chloroprene based adhesive	NIOSH no.	Unknown
Chemical name Mixture	Hazchem code	Unknown
Synonyms None	UN no.	1133 Flammable liquids NOS

2. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredient	CAS No.	Approx. (%)	Hazard Classification & Risk Phrases
Light Aliphatic Petroleum Solvent	64742-89-8	<35%	Unknown
Ethyl Acetate	141-78-6	<10%	EEC – 607-022-00-5
Toluene	108-88-3	<45%	EEC – 601-021-00-3
Benzene	71-43-2	<1%	EEC – 601-020-00-8

3. HAZARDS IDENTIFICATION

Main hazard:	Highly flammable
Health effects: Eyes	Irritant to eyes
Health effects: Skin	Irritant on skin, defatting agent and prolonged contact may cause dryness of skin
Health effects: Ingestion	Hazardous – may be fatal if swallowed
Health effects: Inhalation	Hazardous – vapours cause drowsiness/dizziness, disorientation and/or vertigo
Carcinogenicity:	Both NTP and IARC list Benzene as a human carcinogen

4. FIRST-AID MEASURES

Product in eyes	Remove any contact lenses from the eyes before rinsing thoroughly with plenty of water (lift eye lids). Rinse for at least 15 minutes. Seek medical attention if any discomfort continues
Product on skin	Wash skin with soap and water – do not use solvents! Seek medical attention if irritation persists
Product ingested	Never make an unconscious person vomit or drink fluids. Get the affected person to drink a lot of water in small gulps. Do not induce vomiting. Seek medical attention if discomfort continues
Product inhaled	Move to fresh air and seek medical if nausea and dizziness persists. Aspiration into lungs may lead to pneumonitis

5. FIRE-FIGHTING MEASURES

Extinguishing media	Water, dry chemical powder, foam, carbon dioxide or sand
Special hazards	In case of fire, hazardous combustion-gases are formed – CO. Toxic vapours may be released. Cool containers exposed to flames with water until well after the fire is out. Vapour accumulation could flash and/or explode if ignited. Under certain conditions of combustion traces of other toxic substances cannot be excluded. Flammable vapours may form explosive mixture with air.
Protective clothing	In case of fire, wear respiratory protection such as NIOSH approved breathing equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear NISOH approved self contained breathing apparatus. Spill surface may be slippery
Environmental precautions	Avoid contamination of ground and water surfaces
Small spills	If recovery is not feasible, absorb with dry sand, soil or non-reactive absorbent material or coagulate by sprinkling sodium chloride over the spill. If product has dried, scrape off the ground. Place in a container suitable for disposal
Large spills	Stop leak if without risk. Ventilate area. Prevent entry into drains or sewers. Clean as per small spills

7. HANDLING AND STORAGE

Suitable material	Steel container lined with polyethylene or polypropylene, polyethylene, PVC containers
Storage precautions	Keep product in a sealed container at temperatures between 5 and 30°C. Minimize contact with atmosphere to reduce solvent evaporation. Avoid heat, sparks, open flames and static charge.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits

Name	TWA - 8 hrs	STEL - 15 min
Toluene	50ppm (Sk)	150ppm (Sk)
LAPS	100ppm (Sk)	-
Ethyl Acetate	400ppm (Sk)	-
Benzene	50ppm (Sk)	-

Engineering controls	Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above. Ventilation must be explosive proof
Respiratory Protection	Not required under normal conditions of use in a well-ventilated space
Hand Protection	Rubber gloves should be used if there is a risk of direct contact onto skin
Eye Protection	Safety glasses
Skin Protection	Observe the usual precautions when handling chemicals. Remove soiled or soaked clothing immediately
Other Protection	Wash hands at the end of each work shift and before eating

9. PHYSICAL PROPERTIES

- Appearance Semi-viscous yellow liquid
- Odour Mild odour
- pH n/a
- Boiling point Approx 61°C @ 760mmHg
- Flash point <10°C
- Explosive properties None
- Oxidising properties None
- Density (g/cm³ @ 20°C) Approx 0.85
- Solubility water Insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid	Prolonged exposure to air will result in solvent evaporation and gellation of product. Avoid temperature extremes: below 5°C and above 30°C
Incompatible materials	Organic solvents, strong acids, strong alkalis, salts. Reactive with oxidising agents
Hazardous decomposition products	Carbon Monoxide

11. TOXICOLOGICAL INFORMATION

Repeated inhalation or skin exposure to n-hexane has been noted to cause peripheral neuropathy in exposed individuals. Both sensory & motor nerve damage has been documented with long term exposures > 500ppm. Cessation of exposure is not immediately followed by improvement & symptoms may even progress for 2-3 months. Final recovery may take more than one year depending on the severity of the intoxication, & may not always be complete. Concurrent exposure to n-hexane & methyl ethyl ketone (MEK) will accelerate the appearance of damage due to n-hexane, although MEK alone will not cause the effect. Other isomers of hexane do not cause nerve damage.

n-Hexane: LD50>2000mg/kg (oral, rat)
LD50>2000mg/kg (dermal, rabbit)
LC50>20mg/L /4 hours (inhalation, rat)
Toluene: LD50>2000mg/kg (oral, rat)
LD50>2000mg/kg (dermal, rabbit)
LC50>20mg/L /4 hours (inhalation, rat)

Acute toxicity:	LD50	Dermal	Rabbit >2000 mg/kg
	LD50	Oral	Rat <200 mg/kg
	LC50	Vapour	Rat <50 mg/l

12. ECOLOGICAL INFORMATION

n-Hexane:	Fish	: expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l
	Aquatic invertebrates	: expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l
	Algae	: expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l
	Microorganisms	: expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l
Toluene:	Fish	: expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l
	Aquatic invertebrates	: harmful: 10 < LC/EC/IC50 <= 100mg/l
	Algae	: low toxicity: LC/EC/IC50 > 100mg/l
	Microorganisms	: expected to be toxic: 1 < LC/EC/IC50 <= 10mg/l

13. DISPOSABLE CONSIDERATIONS

Disposal methods	Whatever cannot be saved for recovery or recycling should be handled according to current local waste disposal legislation. Do not allow to enter drains or sewers. Do not allow to enter any body of water
Disposal of packaging	Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse or disposed of in approved facility in accordance with current local legislation

14. TRANSPORT REGULATIONS

	Road and Rail Transport	Marine Transport	Air Transport
UN No.	1133	1133	1133
Proper shipping name	ADHESIVE containing flammable liquid	ADHESIVE containing flammable liquid	ADHESIVE containing flammable liquid
DG Class	3	3	3
Sub. Risk	none	none	None
Packaging group	II	II	II
Hazchem	3[Y]E		

Dangerous goods segregation: Classified as Dangerous Goods by the Australian Dangerous Goods (ADG) Code for transport. Refer to ADG code for segregation requirements.

15. REGULATORY INFORMATION

EEC hazard classification	Unknown
Risk phrases	R11, R20, R22, R36/37
Safety phrases	S16, S29, S38, S36/37/39
National legislation	n/a

16. OTHER INFORMATION

For intended use and applications see the Technical Data Sheet for the product. The information provided in this Material Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Recipients of our product must take responsibility for observing existing laws and regulations

Risk Phrases

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36 Irritating to eyes.

R38 Irritating to skin.

Safety Phrases

S16 Keep away from sources of ignition - No smoking.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.