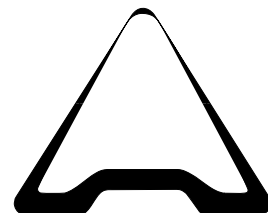


SAFETY DATA SHEET

PK1



1- IDENTIFICATION OF SUBSTANCE AND PRODUCER

Commercial name of product **PK1**

Producer **Alternative Plastics Ltd
Unit 1 Buckingham Close
Bermuda Ind Estate
Nuneaton
Warwickshire
CV10 7JT**

Emergency telephone numbers **Tel +44(0) 2476 641210 Fax +44 (0) 2476 326156**

2- COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description Organic acid in halogenated solvent.

Composition / information on ingredients

Substance	formula	%	CAS	EEC	UN No.
Dichloromethane	CH ₂ CL ₂	<97	75-09-2	602-004-00-3	1593
Acetic acid	C ₂ H ₄ O ₂	<18	64-19-7	200-580-7	2789

3- IDENTIFICATION OF RISKS

Possible risk of irreversible effects. Causes severe burns.

4- FIRST AID MEASURES

Eye contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.

Inhalation: remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Skin contact: Drench the skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.

5- FIRE-FIGHTING MEASURES / PRECAUTIONS

Special Risks: May evolve toxic fumes in fire. Flammable. Vapour/air mixture explosive.

Suitable extinguishing media: Water spray, dry powder or vaporising liquids.

6- ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition. Wear appropriate protective clothing. Inform others to keep at a safe distance. If local regulations permit, mop up with plenty of water and run to waste, Diluting greatly with running water. Otherwise absorb on an inert absorbent, transfer to

container and arrange for removal by disposal company. Ventilate area to dispel residual vapour. For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7- HANDLING AND STORAGE

Handling: See section 8. Under no circumstances eat, drink or smoke while handling this material. Wash hands and face thoroughly after working with material. Contaminated clothing should be washed before re-use.

Storage: Store in a warm place (above 20°C). Keep well closed and protected from direct sunlight and moisture.

8- EXPOSURE CONTROLS / PERSONAL PROTECTION

As appropriate to quantity handled.

Respirator: For short periods use face mask with filter for organic vapours. (type AX). For high concentrations self-contained breathing apparatus.

Ventilation: Fume cupboard, flameproof.

Gloves: Nitrile

Eye Protection: Goggles or face-shield

Other Precautions: Plastic apron, sleeves, boots-if handling large quantities

9- PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid

Colour: colourless

Odour: pungent

Melting temperature: -97°C (Dichloromethane)

Boiling temperature: 40°C (Dichloromethane)

Density (g/ml): 1.33

Vapour pressure: 11.4mmHg, 20°C (Acetic acid), density: 2.07

380mmHg, 22°C (Dichloromethane), density: 2.93

Log P(o/w): 1.25 (Dichloromethane), -0.31 (Acetic acid)

Solubility in water: Acetic acid (Total), Dichloromethane (slightly)

Flash point: Acetic acid 40°C

Explosion Limits: Acetic acid lower 4%, upper 16%

Ignition temperature: Acetic acid 426°C

10- STABILITY AND REACTIVITY

Substances to be avoided: alkali metals, alkaline earth metals, metals, nitrogen oxides, alcoholates, alkali amides, perchloric acid, nitric acid, non-metallic oxides, oxygen, alcohols, amines, water/KmnO₄, anhydrides/water, aldehydes, halogen-halogen compounds, oxidizing agents, alkali hydroxides, non-metallic halides, ethanolamine.

Hazardous decomposition products (Dichloromethane): hydrochloric acid, phosgene

11- TOXICOLOGICAL INFORMATION

After skin contact: May burn. Irritation. Degreasing effect on the skin, possibly followed by secondary inflammation. Danger of skin absorption.

After eye contact: Burns. Severe irritation. Risk of blindness! Risk of corneal clouding.

Inhalation and ingestion: Burns in oesophagus and stomach. Irritation symptoms in the respiratory tract. May lead to dizziness, nausea, vomiting, gastric spasms, bloody vomiting, dyspnoea and the formation of oedemas in the respiratory tract. Risk of perforation in the oesophagus and stomach. Pulmonary failure possible after aspiration of vomit. After the absorption of large quantities: CNS disorders, drowsiness, drop in blood pressure, cardiac dysrhythmia, respiratory paralysis, inebriation, narcosis.

Cannot be excluded: shock, cardiovascular failure, acidosis, Damage to Kidneys, liver

Further data

LD50 3310 mg/kg oral, rat (Acetic acid)

LD50 2136 mg/Kg oral, rat (Dichloromethane)

LC50 88 mg/l inhalation, rat (Dichloromethane)

Dichloromethane has been found to cause cancer in laboratory animals. May cause adverse mutagenic or teratogenic effects. Carcinogen, Category 3.

12- ECOLOGICAL INFORMATION

Dichloromethane: low bioaccumulation potential and low aquatic toxicity.

No environmental hazard is anticipated for Acetic acid provided that the material is handled and disposed of with due care and attention.

13- DISPOSAL CONSIDERATIONS

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14- TRANSPORT INFORMATION

UN-No.:	IMDG class:
IMO:	Packaging group:
IATA:	Packaging group:
ADR/RID:	

15- REGULATORY INFORMATION

Labelling according to EC directives

Symbol:	Xn	Harmful
	C	Corrosive
R-phrases:	R35	Causes severe burns.
	R40	Possible risk of irreversible effects.

S-phrases: S23-26-45 Do not breathe gas. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S24/25-23-36/37 Avoid contact with skin. Do not breathe gas. Wear suitable protective clothing and gloves.

EEC-No.:200-580-7 (Acetic acid)

EEC-No.:200-838-9 (Dichloromethane)

Carcinogen, Category 3

Local Regulations

UK Exposure Limits:OES, Long-term, mg/m³: 25 –Acetic acid

UK Exposure Limits:MEL, Long-term, mg/m³: 350 -Dichloromethane

16- OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best knowledge correct and complete and is given in good faith but without warranty. It remains the user's own

responsibility to make sure that the information is appropriate and complete for his special use of this product.

History

Date of print: 13.7.98

Revision date:

Supersedes edition of:

Changes were made in:

This information only concerns the product referred to and does not need to be valid if used with other product(s) or in any process. The information is to our best knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.