

The technical information and recommendations were compiled by SIRIM Berhad from actual test data (where feasible), literature search component information from suppliers and from recognized codes of good practice. They relate to the specific material designated and may not be valid for such material used in combination with other materials or in any process. Conditions of use of the material are under control of the user, therefore it is user is responsibility to safety oneself as to the suitability and completeness of such information for his/her own particular use.

SAFETY DATA SHEET

SECTION 1.1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name	: "ZZZ B70" - PVC glue
Trade Name	: None
Chemical Name	: Not applicable
Chemical Formula	: Not applicable
Molar Mass	: Not applicable
Chemical Family	: Not applicable
Manufacturer's Code	: No information available
Use	: For joining of PVC pipe up to 15.5mm diameter

SAFETY DATA SHEET

SECTION 2 : HAZARD IDENTIFICATION

The product is a flammable irritant and harmful liquid.

For full text of the R-phrases, see Section 15

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENT

No.	Chemical Name	CAS No	Proportion	Cut-Off Conc ¹	Exposure Limit	Toxicity Data
1	Polyvinyl chloride	9002-86-2	26.7%	-	1 mg/m ³ TWA (respirable) ACGIH	-
2.	Polyvinyl acetate	9003-20-7	3.3%	-	-	-
3	Methyl Ethyl Ketone (MEK)	78-93-3	35%	X ₁ - 20%	TLV - 200ppm as TWA	LC50 - 3220mg/1/96h; EC50 - 509 1mg/1/48h
3	Cyclohexanone (MEK)	108-94-1	35%	X ₀ - 25%	TLV - 25ppm as TWA; 50ppm as STEL(skin)	LC50 - 536mg/1/48h; EC50 - 800mg/1/24h

Reference :¹ Occupational Safety and Health (Use And Standards Of Exposure Of Chemicals Hazardous to Health) Regulation 2000. Occupational Safety and Health Act 1994, Malaysia.

²EC Council Directive 2000/32/EC.

ACGIH - American Conference of Governmental Industrial ventilation.

Section 4 : FIRST AID MEASURES

Inhalation

If breathing stops, mouth-to-mouth respiration or mechanical clothing.

Skin contact

Wash off with plenty of water. Remove contaminated clothing.

Eye contact

If experience irritation hold eyelids apart and flush with water for at least 15 minutes. if irritation persists seek medical attention.

Ingestion

Caution If victim vomits. Keep airways free.

Section 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂), foam, powder

Special protective equipment for the fire-fighters

Do not stay in dangerous zone without self-contained apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

SAFETY DATA SHEET

SECTION 6 : ACCIDENTAL RELEASE MEASURE


Personal precautions

Do not breathe vapours. Avoid contact with substance. Ensure supply of fresh air in enclosed rooms.

Environmental precautions

Do not empty into drains. Explosive properties.

Methods for cleaning up

Take up with liquid - absorbent material (e.g. Chemizorb ). Forward for disposal. Clean up affected area.

Section 7 : HANDLING AND STORAGE

Handling

Advice on safe handling

Work under hood. Do not inhale substance. Avoid generation of vapours.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

Storage

Tightly closed in a well - ventilated place, away from sources of ignition and heat.

Section 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory protection

Required when vapours are generated

Hand protection

Full contact

Glove material	Butyl rubber
Glove thickness	0.7mm

Splash contact

Glove material	Viton
Glove thickness	0.7mm

Eye Protection

Non-fogging goggles or safety glasses should be worn if there is a risk of the product getting into the eyes.

Protective measures

Flame-resistant clothing

SAFETY DATA SHEET

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Colorless liquid
Odour	: Gummy smell
Solubility (in water)	: Insoluble
Boiling point	: 54°C
Melting point	: Not applicable
Vapour Pressure (mm of Hg at 25°C)	: No information available, however the value is based on the major ingredients i.e. 105 hPa (MEK), 4.5 hPa (Cyclohexanone)
Percentage Volatiles	: No information available
Evaporation Rate	: No information available
Vapour Density	: No information available, however the value is based on the major ingredient MEK: 2.48
Relative density	: No information available, however the value is based on the major ingredients : 0.805 g/cm ³ (MEK), 0.95 g/cm ³ (Cyclohexanone)
Flash point	: 16.9°C
Autoignition temperature	: No information available
Flammable	: Sample catch fire when exposed to an open flame.
pH	: Not available
Particle size	: No information available

Section 10 : STABILITY AND REACTIVITY

Condition to avoid

Warming open flame, source of ignition and sparks.

Substance to be avoided

Risk of explosion with nitric acid, hydrogen peroxide, alkali hydroxides.

Section 11 : TOXICOLOGICAL INFORMATION

This product is classified as dermal non-irritant with Human Irritancy Equivalent (HIE) score of 0.50.

This product is classified as minimal ocular irritant with the Irritation Draize Equivalent (IDE) score of 6.9.

Section 12 : ECOLOGICAL INFORMATION

This product is not soluble in water. No LC 50 and EC 50 data available for the product. However, based on the major product ingredients:

MEK : Fish 96h (P.promelas); LC 50 : 3220mg/l
Daphnia 48h (Daphnia magna); EC 50: 5091 mg/l
Alage 7d (Sc. quadricauda); IC50: ≥ 4300 mg/l

Cyclohexanone : Fish 48h (L.idus); LC50: 536 mg/l
Daphnia 24h (Daphnia magna); 800 mg/l
Alage 8d (Sc. quadricauda); IC50: 370 mg/l

SAFETY DATA SHEET

SECTION 13 : DISPOSAL INFORMATION

The product or the packaging must be disposed of in compliance with the respective national regulation

Section 14 : TRANSPORT INFORMATION

(Based on the major composition, i.e. cyclohexanone and MEK)

Cyclohexanone

Road & Rail

UN 1915 Cyclohexanone, 3, III

Sea

UN 1915, 3, III

Air

UN 1915, 3, III

Methyl Ethyl Ketone (MEK)

Road & Rail

UN 1193 Methyl ethyl ketone, 3, II

Sea

UN 1193 Methyl ethyl ketone, 3, II

Air

UN 1193 1193 Methyl ethyl ketone, 3, II

Section 15 : REGULATORY INFORMATION

Signal Word

Danger

Hazard Statement

H225 : Highly Flammable liquid and vapour

Precautionary Statement

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Symbol

F - Highly flammable

Xn - Harmful

Xi - Irritant

Risk phrases: R 11 - Highly flammable

R 20 - Harmful by inhalation

R 36 - Irritating to eyes

R 66 - Repeated exposure may cause skin dryness or cracking

R 67 - Vapours may cause drowsiness and dizziness

Safety phrases : S9 - Keep container in a well ventilated place
S16 - Keep away from sources of ignition - No smoking.
S25 - Avoid contact with eyes

Section 16 : OTHER INFORMATION

SDS Preparation : December 2009

Prepare for;

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Building 15, SIRIM Berhad
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Section 2, 40911 Shah Alam
Selangor, Malaysia

References:

1. Occupational Safety And Health (Use And Standard Of Exposure Of Chemicals Hazardous To Health) Regulation 2000, Occupational Safety And Health Act 1994, Malaysia
2. EC Directive 67/548/EEC
3. Occupational Safety and Health (Use And Standard Of Exposure Of Chemicals Hazardous To Health) Regulation 2000, Occupational Safety And Health Act 1994, Malaysia
4. UN Recommendations on the Transport of Dangerous Goods.
5. www.merek-chemicals.com