

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

AUTOMOTIVE 2K POLYURETHANE HARDENER

MANUFACTURER'S NAME

POSA INDUSTRIES LIMITED

P.O. Box AN 15834, ACCRA-NORTH, GHANA

Tel. #: 011233302909276

Email: info@posaind.com

Telephone Numbers and Websites

Product Information	011233302909276
Regulatory Information	011233302909276
Medical Emergency	Call nearest hospital
Transportation Emergency	011233302909276

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapour Pressure
10	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 PPM	90.6 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
16	110-43-0	Methyl n-Amyl Ketone		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
22	123-86-4	n-Butyl Acetate		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	

SECTION 3 – HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapour or spray mist

EYE or SKIN contact with the product, vapour or spray mist

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKINS: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in section 2 may cause adverse chronic effects to the following organs or systems:

- The liver
- The urinary system
- The cardiovascular system
- The reproductive system

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapours or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized

CANCER INFORMATION

For complete discussion of toxicology data refer to section 11.

GHS PICTOGRAM



SECTION 4 – FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT

20°F PMCC

LEL

1.1

UEL

10.0

FLAMMABILITY CLASSIFICATION

RED LABEL-Extremely flammable, flash below 100°F(38°C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition, or explosion when exposed to extreme heat.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

SECTION 7 – HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class 1B

PRECAUTION TO BE TAKEN IN HANDLING AND STORAGE

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks and open flame. Vapours will accumulate readily and may ignite explosively.

During use and until all vapours are gone; Keep area well ventilated- Do not smoke- Extinguish all Flames, pilot lights, and heaters- Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code, Use approved bonding and grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labelling. Do not take internally.

Keep out of the reach of children.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with the skin and eyes. Avoid breathing vapour and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed “as dust” in section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits of the nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³(respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³(respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below the applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapour/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by a glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated side shields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.06 lb/gal	965 g/l
SPECIFIC GRAVITY	0.97	
BOILING POINT	174-308 °F	78 – 153 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	55%	
EVAPORATION RATE	Slower than ether	
VAPOUR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical – As Packaged)

3.86 lb/gal	463 g/l	Less Water and Federally Exempt Solvents
3.86 lb/gal	463 g/l	Emitted VOC

SECTION 10 – STABILITY AND REACTIVITY

STABILITY – Stable

CONDITIONS TO AVOID

None Known.

INCOMPATIBILITY

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Methyl Ethyl Ketone may increase the nervous systems effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGICAL DATA

CAS Number	Ingredient			
78-93-3	Methyl Ethyl Ketone	LC50 RAT	4HR	Not available
		LD50 RAT		2740 mg/kg
110-43-0	Methyl n-Amyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		1670 mg/kg
123-86-4	n-Butyl Acetate	LC50 RAT	4HR	2000 ppm
		LD50 RAT		13100 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial/Regional, and Local regulations regarding pollution.

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