



# SAFETY DATA SHEET

**Product Name** : SK PU HARDENER  
**SDS Ref. No** : SDS-2013  
**Revision** : 13  
**Date of issue** : 24.09.2024

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name **SK PU HARDENER**  
Product Description Two pack gloss Polyurethane  
Recommended Use It is use as a top-coat for architectural wall  
Company Identification **SKK (S) PTE LTD**  
No 14 Pandan Road, Singapore 609262  
  
Emergency Telephone Number (65) 6 274 0020  
Fax Number (65) 6 278 0060  
Website [www.skk.com.sg](http://www.skk.com.sg)

## 2. HAZARDS IDENTIFICATION

### GHS Classification:

#### Physical Hazard

Flammable Liquids Category 2  
Skin corrosion/Irritation Category 2  
Eye Damage/Irritation Category 2

#### Health Hazard

Acute toxicity , Oral Classification not possible  
Acute toxicity,Inhalation(air) Classification not possible  
Acute toxicity,Inhalation(Vapours) Category 4  
Acute toxicity,Inhalation(dust,mist) Classification not possible  
Sensitization: respiratory Classification not possible  
Sensitization: skin Classification not possible  
Acute toxicity,Dermal Classification not possible  
Germ cell mutagenicity Classification not possible  
Carcinogenicity Category 2  
Reproductive toxicity Category 1  
Target organ toxicity Category 1 (Single Exposure)  
Central Nervous System,Liver,  
Kidney, respiratory organ  
Systemic toxicity  
Optic Organ Category 2  
Narcotic effects Category 3  
Target organ toxicity Category 1 (Repeated Exposure)  
Nervous System, respiratory organ  
Target organ toxicity Category 2 (Repeated Exposure)  
Spleen, blood vessels, liver,  
Central nervous system, optic organ  
Aspiration toxicity Not classified  
Aquatic environmental toxicity(Acute) Category 2  
Aquatic environmental toxicity(Chronic) Category 2  
Hazardous to the Ozone layer Classification not possible



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## Environmental Hazard

Toxic to Aquatic Life with long lasting effect (H411)

## GHS Pictogram



## Signal Word

Danger

## Hazard Statements

H225 : Flammable liquid and vapor

H313 : May be harmful if in contact with skin

H315 : Causes skin irritation

H304 : Maybe fatal if swallowed and enters airways

H320 : Causes eyes irritation

H332 : Harmful if Inhaled

H336 : May cause drowsiness or dizziness

H360 : May damage fertility or the unborn child

H370 : Causes damage to Organs (Central Nervous System)

H372 : Causes damage to organs through prolonged or repeated Exposure ( Central Nervous System, Liver, Kidney)

## Precautionary Statements

P201 : Obtain special instructions before use

P202 : Do not handle until all safety precautions have been read and understood

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

P233 : Keep Container tightly closed

P240 : Ground/bond container and receiving equipment

P241 : Use explosion-proof electrical/ventilating/lightning equipment

P242 : Use only non-sparking tools

P243 : Take precautionary measures against static discharge

P260 : Do not breathe mist/vapors

P261 : Avoid breathing dust/fumes/gas/mist/spray/vapors

P264 : Wash hands thoroughly after handling

P270 : Do not eat, drink or smoke when using this product

P271 : Use only outdoor or in a well ventilated area

P273 : Avoid release to the environment

P280 : Wear protective gloves/protective clothing/eye protection/face protection

P281 : Use personal protective equipment as required



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## **Response**

P301 + P310 : **If Swallowed:** Immediately call a poison center or doctor/physician

P303 + P361 + P353 : **If on Skin** : Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower

P304 + P340 : **If Inhaled** : Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 : **If in the Eye:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue Rinsing

P312 : Call a **POISON CENTER/DOCTOR** if you feel unwell

P314 : Get medical advice/attention if you feel unwell

P331 : Do not induce vomiting

## **Storage**

P403 + P235 : Store in a well ventilated place. Keep cool

P235 + P405 : Keep Container tightly closed. Store locked up

## **Disposal**

P501 : Dispose of contents and container to appropriate waste site in accordance with local and national regulation

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

SUBSTANCES	CAS NO.	PERCENTAGE,%
Polyisocyanate	--	50
Toluene	108-88-3	50

## **4. FIRST AID MEASURES**

**Inhalation** : Supply to fresh air and call for medical assistance immediately.  
If not breathing, give artificial respiration, if breathing is difficult, give oxygen.  
Keep at rest.

**Skin Contact** : Wash skin with mild soap and water immediately. Remove all contaminated clothes and shoes. Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.

**Eye contact** : In case of eye contact, immediately rinse with clean water for at least 15 minutes. Get medical attention if irritation persists.

**Ingestion** : Do not induce vomiting. Rinse mouth with plenty of water.  
Get immediate medical advice/attention immediately.



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## 5. FIRE - FIGHTING MEASURES

**Suitable extinguishing media** : Carbon dioxide, bubble, powder extinguisher, and dry sand.

**Unsuitable extinguishing media** : Straight stream of water.

**Specific hazards arising from the mixture:** No additional information available

### Special Protective Equipment for Fire Fighter:

- Wear full protective clothing and NIOSH – approved self-contained breathing apparatus.
- Use water spray to cool fire-exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours.
- Avoid spraying water directly into storage containers.
- Closed containers may explode when exposed to extreme heat.
- Avoid spreading burning liquid with water, isolate liquid.
- Do not allow runoff from fire fighting to enter drains or watercourses.
- If possible, isolate product from heat, electrical equipments, sparks and open flames.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with Spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Collect contaminated fire extinguishing water separately, this must not be discharged into drains.

### Methods and materials for containments and Cleaning up

Transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal.

Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid breathing mist or vapors. Avoid contact with skin. Use non-sparking tools and explosion proof equipment. Use only with adequate ventilation. Use proper bonding and/or earthing procedures. Prevent small spills and leakage to avoid slip hazard.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in a cool, dry and well - ventilated place and accordance with local regulations. Keep away from incompatible materials, ignition sources and do not smoke. Keep out of the reach of children.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters/Occupational Limits

No exposure limit value known but if this product contains ingredients with exposure limits, all personnel and workplace atmosphere must ensure work carry out in an adequate ventilated condition.

Wear full protective clothing and use of NIOSH – approved respirators with organic vapour cartridges is recommended.

### Appropriate Engineering Control Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Ensure eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

**Eye protection** : Use of safety glasses with side shield is recommended.

**Hand protection** : Chemical resistance gloves are recommended.

**Skin and body protection** : Wear chemical resistant clothes and safety shoes when handling product.

**Respiratory protection** : Use appropriate breathing apparatus is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Color	: Clear
Odour	: Solvent odour
Melting point	: No data available
Boiling point	: 111 °C
Flash point	: 6°C
Specific gravity Range	: 1.00 ± 0.05
Lower and upper flammability limit	: No data available
Vapour pressure	: No data available
Spontaneous ignition temperature	: No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under condition of normal use

### Chemical stability

Stable under ordinary conditions of use and storage

### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reaction will not occur.

### Conditions to avoid

Heat, open flame and other ignition sources



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## Incompatible Materials

Strong oxidizing agents

## Hazardous decomposition products

Carbon Dioxide and Carbon Monoxide may be formed by incomplete combustion

## 11. TOXICOLOGICAL INFORMATION

There is no data available on the products itself.

Toxicological information of substances:

### Acute Oral toxicity

Harmful if swallowed

<u>Substances</u>	<u>Oral LD50 (Rat), mg/kg</u>
Toluene	5000

### Acute dermal/skin toxicity

May caused skin Irritation if in contact with skin

<u>Substances</u>	<u>Dermal LD50 (Rabbit), mg/kg</u>
Toluene	12000

### Acute inhalation toxicity

May caused irritating to eyes and respiratory tract if inhaled

<u>Substances</u>	<u>Inhalation vapor LC50 (Rat), mg/L/4hr</u>
Toluene	4000

### Skin Corrosion or Irritation

May cause skin irritation

### Serious eye damage or Irritation

May be an eye irritant

### Respiratory or skin sensitisation

May be irritating to eyes and respiratory tract

### Germ cell mutagenicity

No information available on the product

### Carcinogenicity



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No information available on the product

## Reproductive toxicity

No information available on the product

## Specific Target Organ Toxicity (STOT)- Single Exposure

No information available on the product

## Specific Target Organ Toxicity (STOT)- Repeated Exposure

No information available on the product

## Asphyxiation hazard

May be harmful if swallowed and enters airways

## 12. ECOLOGICAL INFORMATION

### Toxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Result of PBT and vPvB assessment

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

Recycle wherever possible. Consult manufacturer for recycling options.

Do not dispose into the environment, in drains or in water courses.

Method of waste disposal are incineration or biological treatment in state/federal approved facility and must be accordance with local waste and environmental authority requirements.

Empty containers should be recycled or disposed through an approved waste licensed contractor.

## 14. TRANSPORT INFORMATION



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## LAND TRANSPORT

Classified as Dangerous Goods by the European Agreement criteria concerning the international carriage of Dangerous Good (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN Number	1263
Proper shipping name	PAINT ( including paint,lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	3
Packing Group	II

## SEA TRANSPORT

Classified as Dangerous Goods by the International Maritime Dangerous Goods Code (IMDG Code)criteria for transport of Sea.

UN Number	1263
Proper shipping name	PAINT ( including paint,lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	3
Packing Group	II
Marine Pollutant	Yes

## AIR TRANSPORT

Classified as Dangerous Goods by the criteria of International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air.

UN Number	1263
Proper shipping name	PAINT ( including paint,lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	3
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## 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this product.

### **Applicable national regulations:**

#### **Standard on Hazard communication for hazardous chemicals and dangerous goods**

SS-586: Part 1: 2021- Transport and storage of dangerous goods

SS-586: Part 2 :2022 – GHS of classification and labelling of chemicals

SS-586: Part 3: 2022- Preparation of safety data sheet

**MOM : Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations**

**NEA: Environmental Protection and Management Act & Environmental Protection and management (Hazardous Substances) Regulations**

**SCDF : Fire Safety Act & Fire Safety(Petroleum and Flammable Materials) Regulations**

**SPF : The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules**

## 16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate and the source of information which we have obtained is believed to be reliable. However, we cannot assume any liability for the accuracy or completeness of this information. Due to the conditions of handling, storage, use and disposal of this product are beyond our control, we shall not be liable for any damages incurred by the use of this product.

All materials may present unknown hazards and should be always used with caution.

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable