



SAFETY DATA SHEET

Product Name : SK PU ENAMEL BASE
SDS Ref. No : SDS-2003
Revision : 09
Date of issue : 24.09.2024

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

Product Name **SK PU ENAMEL BASE**
Product Description Two-Pack Polyurethane Enamel
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

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazard

Flammable Liquids Category 3
Skin corrosion/Irritation Category 2
Eye Damage/Irritation Category 2A

Health Hazard

Target organ toxicity Category 1 (Single Exposure)
Central Nervous System, Liver,
Kidney, respiratory organ
Respiratory system Category 2
Narcotic effects Category 3
Target organ toxicity Category 1 (Repeated Exposure)
Central Nervous System,
Kidney, respiratory organ
Respiratory system,
Target organ toxicity Category 2 (Repeated Exposure)
Aspiration toxicity Not classified
Aquatic environmental toxicity(Acute) Category 2
Aquatic environmental toxicity(Chronic) Category 3
Hazardous to the Ozone layer
Environment- Acute Toxic Classification not possible

Environmental Hazard

Toxic to Aquatic Life with long lasting effect (H411)



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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,%
Titanium dioxide	13463-67-7	30 - 40
Xylene	1330-20-7	5 - 10
Aliphatic Acrylic Polyol	-	30 - 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 : Wear appropriate respiratory equipments.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : Depends on Colour
Odour : Solvent odour
Melting point : No data available
Boiling point : 137°C
Flash point : 30°C
Specific gravity Range : 1.40 ± 0.10 (Depends on Colour)
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.



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Conditions to avoid

Heat, open flame and other ignition sources

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>
Xylene	3500
Titanium dioxide	20000

Acute dermal/skin toxicity

May caused skin Irritation if in contact with skin

<u>Substances</u>	<u>Dermal LD50 (Rabbit), mg/kg</u>
Xylene	-
Titanium dioxide	10000

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>
Xylene	5700
Titanium dioxide	-

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



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Carcinogenicity

Titanium Dioxide

Titanium Dioxide is being classified by The International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). This is being based on inadequate evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

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.



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14. TRANSPORT INFORMATION

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 III

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 III
Marine Pollutant No

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
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Class 3
Packing Group III



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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