Product Name	**: SK EPO W EHS HARDENER**
MSDS REF NO.	**: 1513**
ISSUE DATE	**: 06.11.2025**

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE

PRODUCT INFORMATION

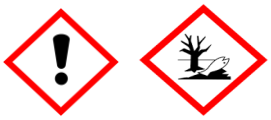
TRADE NAME	: SK EPO W EHS HARDENER
PRODUCT DESCRIPTION	: TWO COMPONENT, WATER-BASED EPOXY COATING SYSTEM
COMPANY	: PT. SKK KAKEN INDONESIA
ADDRESS	: BEKASI INTERNATIONAL INDUSTRIAL ESTATE, BLOCK C-4, KAV. 5-7, SUKARESMI CIKARANG SELATAN, BEKASI, 17530
TEL NO.	: +621 8990 6608
EMERGENCY ASSISTANCE	: AS MENTIONED ABOVE

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION

Eye Damage/Irritation	Category 2
Skin Irritation	Category 2
Skin sensitization	Category 1
Aquatic Environmental Toxicity (Chronic)	Category 2

GHS LABEL ELEMENT



Signal Word Warning

Hazardous Information

- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- Toxic to aquatic life with long lasting effects.

Precautionary Statement

«Prevention»

- Avoid breathing dust / fume / gas / mist / vapors / sprays.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves / protective clothing / eye protection / face protection.

«First Aid Measures»

- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If ON SKIN : Wash with plenty of soap and water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
- If skin irritation or rash occurs : Get medical advice/attention.
- If eye irritation persists : Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- Collect spillage.
- Get medical advice/attention if you feel unwell.

«Storage»

- Store in a well ventilated place. Keep cool.
- Keep container tightly closed. Store locked up.

«Disposal»

- Dispose of contents and container to appropriate waste site in accordance with applicable local/regional/national/international regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	CONC.
Liquid Epoxy Resin	Undisclosed / Proprietary	Undisclosed / Proprietary

4. FIRST AID MEASURES

EYE CONTACT

Immediately rinse with clean water for at least 15 minutes. Get medical attention.

SKIN CONTACT

Immediately flush skin with mild soap and water. Remove all contaminated clothes and shoes. Wash contaminated clothing before reuse. Get medical attention.

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call a physician.

INGESTION

Rinse mouth with plenty of water. Do not induce vomiting. Call a physician immediately.

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5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry chemical, foam or CO_2.

FIRE FIGHTING PROCEDURE : 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. Fire-fighters should use protective clothing, eyes protection, and self-contained breathing apparatus.

FIRE FIGHTING EQUIPMENT : Respiratory & eye protection required for fire–fighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be. Used for all indoor fires and any significant outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

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

ENVIRONMENTAL PRECAUTIONS:

Prevents 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 of sanitary sewer system. Collect contaminated fire extinguishing water separately, this must not discharged into drains.

CLEAN-UP-METHODS:

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 safety.

7. HANDLING & STORAGE

HANDLING

Avoid breathing mist or vapors. Avoid contact with skin. Use non-sparkling 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.

STORAGE

Keep containers tightly closed. Store in a cool, dry and well-ventilated place and accordance with local regulations. Keep away from incompatible materials (oxidizing agents, strong acids, bases and amines), ignition sources and do not smoke. Keep out of the reach of children. Protect containers against physical damage and check regularly for leaks.

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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 approved respirators with organic vapor cartridges is recommended.

APPROPRIATE ENGINEERING CONTROL MEASURES

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTIVE EQUIPMENT

For respiratory organs	: Wear suitable breathing apparatus.
For eyes	: Wear chemical safety goggles with side shield is recommended.
For skin	: Wear protective gloves which do not absorb chemical and safety shoes when handling product. Long sleeved shirts and trousers are recommended when handling chemicals. Wash hands with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	: Liquid
COLOR	: Clear
ODOR	: None
BOILING POINT/RANGE	: 204.4 °C
MELTING/FREEZING POINT	: No Data Available
FLASH POINT	: 266.6 °C
SPECIFIC GRAVITY RANGE	: 1.11 – 1.16 (28°C)
FLAMMABILITY LIMIT	: No Data Available
VAPOUR PRESSURE	: 4.6×10^{-8} Pa (at 25 °C)
AUTOIGINITION TEMP.	: No Data Available

10.STABILITY AND REACTIVITY

REACTIVITY

No dangerous reaction known under condition of normal use.

STABILITY

Stable under normal storage and handling conditions.

HAZARDOUS REACTIONS

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

CONDITIONS TO AVOID

Keep away from oxidizing agents, strong alkaline, strong acidic materials, heat, open flame and other ignition sources.

HAZARDOUS POLYMERSION

Carbon dioxide and carbon monoxide and non-combusted hydrocarbons (smoke) may be liberated when product is involved in fire.

11.TOXICOLOGICAL INFORMATION

Acute oral toxicity

Experimental/calculated data

LD_{50}, oral : >5,000 mg/kg (the product is non-harmful/non-toxic if ingested)

Acute dermal/skin toxicity

LD_{50}, dermal : >5,000 mg/kg (the product is non-harmful/non-toxic in contact with skin)

Acute inhalation toxicity

LD_{50}, inhalation : >20 mg/L (the product is non-harmful/non-toxic if inhaled)

Skin corrosion or Irritation

May cause skin irritation.

Serious eye damage or Irritation

May be an eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction. This product is not expected to cause allergy or asthma symptoms or breathing difficulties if accidentally inhaled.

Germ cell mutagenicity

No information available on the product.

Carcinogenicity

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

No information available on the product.

12.ECOLOGICAL INFORMATION

There is no data available on the product itself.

13.DISPOSAL INFORMATION

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

LAND TRANSPORT ADR,RID

Class	9
Packaging Group	III
UN NO.	3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S., Mixture (contains epoxy resin, liquid)

SEA TRANSPORT IMDG

Class	9
Packaging Group	III
UN NO.	3082
EmS Number	F-A S-F
MARINE POLLUTANT	Yes
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S., Mixture (contains epoxy resin, liquid)

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AIR TRANSPORT ICAO/IATA

Class	9
Packaging Group	III
UN NO.	3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S., Mixture (contains epoxy resin, liquid)

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: 2014- Transport and storage of dangerous goods

SS-586: Part 2 :2014 – GHS of classification and labeling of chemicals

SS-586: Part 3: 2008(2014)- 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 whatsoever 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 used as a component in another product, this SDS information may not be applicable. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.