

Product Name : ARKIFLOOR EHG HARDENER
 MSDS REF NO. : 1466
 ISSUE DATE : 11.08.2025

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE

PRODUCT INFORMATION

TRADE NAME : ARKIFLOOR EHG HARDENER
PRODUCT DESCRIPTION : TWO-COMPONENT, GLASS-FLAKES REINFORCED FLOOR COATING HARDENER
COMPANY : PT. SKK KAKEN INDONESIA
ADDRESS : BEKASI INTERNATIONAL INDUSTRIAL ESTATE, BLOCK C-4, KAV. 5-7, SUKARESMI CIKARANG SELATAN, BEKASI, 17530
TEL NO. : +6221 8990 6608
EMERGENCY ASSISTANCE : AS MENTIONED ABOVE

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION

Flammable Hazard	Category 3
Acute Toxicity (Oral, Skin, Inhalation)	Category 4
Eye Damage/Irritation	Category 2
Skin Corrosion/Irritation	Category 1
Skin Sensitization	Category 1
Aspiration Hazard	Category 1
Target Organ Toxicity (Single Exposure)	Category 3
Target Organ Toxicity (Repeated Exposure)	Category 2

GHS LABEL ELEMENT



Signal Word

Danger

Hazardous Information

- Flammable liquid and vapor
- Harmful if swallowed
- May be fatal if swallowed and enters airways
- Harmful if contact with skin
- Causes severe skin burns
- Causes skin irritation
- May cause an allergic skin reaction

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- Causes serious eye damage
- Causes serious eye irritation
- Harmful if inhaled
- May causes respiratory irritation
- May causes damage to organs or organ system through prolonged or repeated exposure
- Toxic to aquatic life

Precautionary Statements

«Prevention»

- Keep away from heat/sparks/open flames/hot surface. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment, use only non-sparking tools.
- Use explosion-proof electrical/ventilating/lightning equipment.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fumes/gas/mist/spray/vapors.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Use personal protective equipment as required.
- Wear protective gloves/protective clothing/eye protection/face protection as required.

«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 : Remove immediately all contaminated clothing. Rinse skin with water/shower.
- If Swallowed : Call a Posion Centre/doctor immediately. Do not induce vomiting.
- If Inhaled : Move person to fresh air and keep at rest in a position comfortable for breathing.
- If skin irritation or a rash occurs : Get medical advice/attention.
- In case of fire : Use appropriate media for extinction.
- Take off all contaminated clothing and wash before reuse.
- Get medical advice/attention if you feel unwell.

«Storage»

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

«Disposal»

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	CONC.
4,4 Methylenebis(cyclohexyl amine)	1761-71-3	70 – 75 %
Xylene	1330-20-7	15 – 20 %

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4. FIRST AID MEASURES

Inhalation

Move person 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 large amounts of 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 flush eye with large amounts of clean water for at least 15 minutes. Remove contact lens. Get medical attention if irritation persists.

Ingestion

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

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry Chemical, Dry Sand, Limestone powder, Alcohol-resistant foam, CO₂.

FIRE FIGHTING PROCEDURE : Flammable liquid and vapors
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 equipment, sparks and open flame.

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

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS : No additional information available.

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

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. Advise authorities if product has entered a watercourse or sewer.

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 safely.

7. HANDLING AND STORAGE

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.

STORAGE

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. Protect containers against physical damage and check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS / OCCUPATIONAL LIMITS

Substances	ACGIH TLV-TWA		OSHA PEL-TWA	
	ppm	mg/m ³	ppm	mg/m ³
4,4 Methylenebis(cyclohexyl amine)	-	-	-	-
Xylene	100	434.00	-	-

ENGINEERING CONTROLS

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

For respiratory organs : Wear suitable breathing apparatus is recommended.

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For eyes : Wear chemical safety goggles with side shield is recommended.

For skin and body : Wear chemical resistant clothes, safety gloves and safety shoes when handling the product. Wash hands with soap and water after handling.

For protection clothing : Wear safety helmet, full protective clothing, safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM : Liquid

COLOUR : Light Yellow

ODOR : Ammoniacal

BOILING POINT : 137 – 143 °C

MELTING/FREEZING POINT: No Data Available

FLASH POINT : 23 °C (Closed Cup)

SPECIFIC GRAVITY : 0.97 ± 0.05

FLAMMABILITY LIMIT : 1.1 – 7 % vol.

VAPOUR PRESSURE : No Data Available

AUTOIGNITION TEMP. : >527 °C

10. STABILITY AND REACTIVITY

REACTIVITY

No dangerous reaction known under condition of normal use.

STABILITY

Stable under ordinary conditions of use and storage.

HAZARDOUS REACTIONS

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

CONDITION TO AVOID

Heat, open flame and other ignition sources.

INCOMPATIBLE MATERIALS

Reactive metals (e.g. sodium, calcium, zinc, etc.), material reactive with hydroxyl compounds, organic acids, mineral acids, sodium hypochlorite, oxidizing agents, copper, aluminium, zinc, galvanized surfaces and peroxide.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide, carbon monoxide and non-combusted hydrocarbon (smoke).

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11. TOXOLOGICAL INFORMATION

This product has not been tested and all the toxicological statements have been derived from the respective components' available toxicity information.

Acute Oral toxicity

Harmful if swallowed

<u>Substances</u>	<u>Oral LD50 (Rat), mg/kg</u>
Xylene	4300

Acute dermal/skin toxicity

May caused skin Irritation if in contact with skin

<u>Substances</u>	<u>Dermal LD50 (Rabbit), mg/kg</u>
Xylene	1700

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	5000

Skin Corrosion or Irritation

Corrosive in an in vitro test.

Serious eye damage or Irritation

Risk of serious damage to eyes.

Respiratory or skin sensitisation

May cause sensitization of susceptible persons by skin contact.

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

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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. The product should not be allowed to enter drains or watercourses or to be deposited where it can affect ground or surface waters.

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	8
Packaging Group	III
UN NO.	2735
Shipping Name	Amine, liquid, corrosive, N.O.S. (Cycloaliphatic amine)

SEA TRANSPORT IMDG

Class	8
Packaging Group	III
UN NO.	2735
EmS Number	F-A S-B
MARINE POLLUTANT	No
Shipping Name	Amine, liquid, corrosive, N.O.S. (Cycloaliphatic amine)

AIR TRANSPORT ICAO/IATA

Class	8
Packaging Group	III
UN NO.	2735
Shipping Name	Amine, liquid, corrosive, N.O.S. (Cycloaliphatic amine)

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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: 2014- Transport and storage of dangerous goods

SS-586: Part 2 :2014 – GHS of classification and labelling 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 the information contained herein. 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 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.