

Material Safety Data Sheet

EK3300/A301 397LB 180KG

1. Product and company identification

Product name

EK3300 /A301 397LB 180KG

MSDS Number

4197

Internal code

K9110

Product Type

Curing Agent

Manufacturer, Importer,

Hexion Specialty Chemicals, Inc.

Supplier

P. O. Box 4500

Houston Texas 77210

hazcom@hexion.com

Print date

10-MAR-2009

Telephone

For Emergency Medical Assistance

Call Health & Safety Information Services, 1-866-303-6949

For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666

For additional health and safety or regulatory information, call

(281)325-3391.

2. Hazards identification

Form

Liquid

Odor

Amine

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Emergency overview

DANGER!

HARMFUL IN CONTACT WITH SKIN. CAUSES EYE AND SKIN BURNS, MAY CAUSE ALLERGIC SKIN REACTION, MAY CAUSE

RESPIRATORY TRACT IRRITATION.

Potential acute health effects

Inhalation

Slightly imitating to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Ingestion

May cause burns to mouth, throat and stomach.

Skin

Corrosive to the skin. Causes burns, Harmful in contact with skin. May

cause sensitization by skin contact.

Eyes

Corrosive to eyes. Causes burns.

Potential chronic health effects

Chronic effects

Contains material that may cause target organ damage, based on animal

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data.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Target organs

Review Section 2 and 11 for any additional assessments.

Over-exposure signs/symptoms

Inhalation

Adverse symptoms may include the following: respiratory tract irritation,

coughing,

Ingestion

Adverse symptoms may include the following: stomach pains,

Skin

Adverse symptoms may include the following: pain or irritation, redness,

blistering may occur

Eves

Adverse symptoms may include the following: pain, watering, redness,

Medical conditions aggravated

by over-exposure

Pre-existing skin disorders and disorders involving any other target

organs mentioned in this MSDS as being at risk may be aggravated by

over-exposure to this product.

See section 11 for more detailed information on health effects and symptoms.

3. Composition and information on ingredients

Ingredient name
Isophorone Diamine

CAS number 2855-13-2

70.0 - 100.0

4. First aid measures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician. Get medical attention immediately.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention

^{**} Any applicable Canadian trade secret numbers will be listed in Section 15.

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Ingestion

Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first aid personnel

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

Notes to physician

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Flammability of the product

In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Sultable

Use dry chemical, CO2, water spray (fog) or foam.

Not suitable

None known.

Special exposure hazards

Promptly Isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without sultable training.

Hazardous combustion products

Decomposition products may include the following materials: carbon oxides, nitrogen oxides,

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through

spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store In accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.in some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Form

Liquid

Flash point

112 °C(234 °F)

Color

Colorless/Colourless

Odor

Amine

Нα **Boiling point** Estimated, 14 247 °C(477 °F)

Melting point Relative density 10 °C(50 °F)

Vapor pressure

0.924

Solubility

0.01 mbar @ 25 °C(77 °F)

Complete

10. Stability and reactivity

Stability

The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

Strong oxidizer, Extremes of temperature and direct sunlight.

Materials to avoid

Reactive or incompatible with the following materials: acids,

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Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Acute toxicity

Ingredient name Isophorone Diamine

LD50 Oral

Rat

1,030 mg/kg

Other Toxicological Information

Carcinogenicity Classification

Ingredient name

Isophorone Diamine

ACGIH IARC

Not classified Not classified

NTP **OSHA** Not listed Not regulated

12. Ecological information

Environmental effects

No known significant effects or critical hazards.

Other adverse effects

No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations

UN Regulatory information number CFR 2289

Proper shipping name

Classes/*PG

Reportable Quantity (RQ)

ISOPHORONEDIAMINE

Class 8 III

ISOPHORONEDIAMINE

Class 8 III

IATA (Cargo)

IMO/IMDG

2289

2289

ISOPHORONEDIAMINE

Class 8 III

*PG: Packing group

15. Regulatory information

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US regulations

HCS Classification Corrosive material, Sensitizing material, Target organ effects

U.S. Federal regulations

SARA 311/312 Classification Immediate (acute) health hazard, Delayed (chronic)

health hazard

SARA 313 - Supplier Notification

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40

CFR Part 372. None required.

SARA 302 Extremely Hazardous Substances None required.

State regulations

Massachusetts RTK Substances None required.

New Jersey RTK Hazardous Substances The following components are listed:

Isophorone Diamine,

Pennsylvania RTK Hazardous Substances None required.

California Prop. 65: None required.

<u>Canada</u>

WHMIS (Canada)

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2B: Material causing other toxic effects (Toxic).

Class E: Corrosive material

Canadian lists

Canadian NPRI: None required.

International regulations

Chemical inventories

Europe inventory All components are listed or exempted.

Australia inventory (AICS) All components are listed or exempted.

China inventory (RECS) All components are listed or exempted.

Korea inventory (RECI) All components are listed or exempted.

Philippines inventory (PICCS) All components are listed or exempted.

Japan inventory (ENCS) All components are listed or exempted.

Canada inventory All components are listed or exempted.

United States inventory (TSCA 8b) All components are listed or exempted.

16. Other information

Hazardous Material Information System III

Health: 3 Flammability: 1

Information System III FI (U.S.A.) FI

Physical hazards: 0

Chronic: *

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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3.2

Notice to reader

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