

Safety Data Sheet

Version 2.2

Revision Date 01/08/2017

SDS Number 300000008507

Print Date 01/21/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ANCAMIDE[®] 2482 Curing Agent

Product Use Description : Curing Agent

Manufacturer/Importer/Distributor : Evonik Corporation - Division PMD
299 Jefferson Road
Parsippany, NJ 07054
www.evonik.com

Telephone : 973-929-8060 Corporate
1-800-345-3148 Chemicals Cust Serv
1-800-752-1597 Gases/Electronics Cust Serv

Emergency telephone number (24h) : 800-523-9374 USA
+1 610 481 7711 International

2. HAZARDS IDENTIFICATION

GHS classification

Skin corrosion - Category 1B
Serious Eye Damage - Category 1
Skin sensitization - Category 1
Specific target organ toxicity - repeated exposure - Oral Category 2

GHS label elements

Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:

H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.

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H373a:May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Statements:

- Prevention : P260:Do not breathe dust/fume/gas/mist/vapours/spray.
P264:Wash hands thoroughly after handling.
P272:Contaminated work clothing should not be allowed out of the workplace.
P280:Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P301+P330+P331 :IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 :IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 :IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 :Immediately call a POISON CENTRE/doctor.
P333+P313 :If skin irritation or rash occurs: Get medical advice/attention.
P363 :Wash contaminated clothing before reuse.
- Storage : P405:Store locked up.
- Disposal : P501:Disposal of contents/container to be specified in accordance with regulations.

Hazards not otherwise classified

Corrosive
Severe skin irritant.
Severe eye irritant.
Severe respiratory irritant.
May cause sensitization by skin contact.

11.7 % of mixture consists of ingredients of unknown acute toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Polyamide	Not Available	60% - 100 %
Cycloaliphatic amine	Not Available	5% - 10 %
Cycloaliphatic amine	Not Available	5% - 10 %
Cycloaliphatic Amine	Not Available	3% - 7 %
Cycloaliphatic amine	Not Available	1% - 5 %
Cyclic amines and hydrocarbons	Not Available	1% - 5 %

CHEMICAL FAMILY: Polyamide

4. FIRST AID MEASURES

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General advice	: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Eye contact	: Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
Skin contact	: Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Wash off immediately with plenty of water for at least 20 minutes. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.
Ingestion	: If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation	: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.
Most important symptoms/effects - acute and delayed	: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Asthma. Adverse respiratory effects (such as cough, tightness of chest or shortness of breath). Eye disease. Skin disorders and Allergies. Adverse skin effects (such as rash, irritation or corrosion). Adverse eye effects (such as conjunctivitis or corneal damage).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. Dry sand. Limestone powder.
Specific hazards	: May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from firefighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NO _x) is to be expected. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.
Special protective equipment for fire-fighters	: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
Further information	: Do not allow run-off from firefighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions, Protective Equipment, and Emergency Procedures	: Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
Environmental precautions	: Construct a dike to prevent spreading. Construct a dike to prevent spreading.
Methods for cleaning up	: Approach suspected leak areas with caution. Call Emergency Response number for advice. Place in appropriate chemical waste container.
Additional advice	: Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical measures/Precautions

Do not store in reactive metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

Respiratory protection	: Wear appropriate respirator when ventilation is inadequate.
Hand protection	: PVC disposable gloves Impervious gloves. 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.
Eye protection	: Full face shield with goggles underneath. Chemical resistant goggles must be worn.
Skin and body protection	: Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots.

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Long sleeve shirts and trousers without cuffs.
Slicker Suit.

Environmental exposure controls : Construct a dike to prevent spreading.

Special instructions for protection and hygiene : Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid. Amber.

Odor : Ammoniacal.

Odor threshold : No data available.

pH : Alkaline.

Melting point/range : No data available.

Boiling point/range : 350 °F (176.67 °C)

Flash point : > 392 °F (> 200 °C)

Evaporation rate : No data available.

Flammability (solid, gas) : Not applicable.

Upper/lower explosion/flammability limit : Not applicable.

Vapor pressure : 14.70 mmHg at 70 °F (21 °C)

Water solubility : Slightly soluble.

Relative vapor density : Not applicable.

Relative density : 0.97 (water = 1)

Partition coefficient (n-octanol/water) : No data available.

Auto-ignition temperature : No data available.

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Decomposition temperature	: No data available.
Viscosity	: No data available.
Molecular Weight	: No data available.
Density	: 60.555 lb/ft3 (0.97 g/cm3) at 70 °F (21 °C)

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: No data available.
Materials to avoid	: Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents. Acetamide and formamide derivatives of a component of this product are extremely irritating to humans and animals. To prevent the formation of these amides do not mix this product with any of the following reagents: acetic anhydride, acetyl chloride, methyl acetate, ethyl acetate, methyl formate, ethyl formate, or other alkyl acetate or formate esters. It is not expected that acetic acid or formic acid themselves would react with this component at room temperature, but given the extremely low doses required to cause irritation, these reagents should also be avoided.
Hazardous decomposition products	: Nitric acid. Ammonia Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO2).
Possibility of hazardous Reactions/Reactivity	: No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye	: Causes eye burns. May cause blindness. Severe eye irritation.
Effects on Skin	: Causes skin burns.

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- Inhalation Effects : Harmful if inhaled and may cause delayed lung injury. Inhalation of aerosol may cause irritation to the upper respiratory tract. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Can cause severe eye, skin and respiratory tract burns. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
- Ingestion Effects : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
- Symptoms : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Asthma., Adverse respiratory effects (such as cough, tightness of chest or shortness of breath)., Eye disease., Skin disorders and Allergies., Adverse skin effects (such as rash, irritation or corrosion)., Adverse eye effects (such as conjunctivitis or corneal damage).

Acute toxicity

- Acute Oral Toxicity : No data is available on the product itself.

Acute Oral Toxicity - Components

Cycloaliphatic amine

LD50 : 625 mg/kg

Species : Rat.

- Inhalation : No data is available on the product itself.

- Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components

Cycloaliphatic amine

LD50 : 2,110 mg/kg

Species : Rabbit.

- Skin corrosion/irritation : Corrosive to the skin of a rabbit.

- Serious eye damage/eye irritation : Severe eye irritation.

- Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

- Carcinogenicity : No data available.

- Reproductive toxicity : No data is available on the product itself.

- Germ cell mutagenicity : No data is available on the product itself.

- Specific target organ systemic toxicity (single exposure) : No data available.

- Specific target organ systemic toxicity (repeated exposure) : No data available.

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Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage., Repeated or prolonged contact causes sensitization, asthma and eczemas. Asthma., Adverse respiratory effects (such as cough, tightness of chest or shortness of breath)., Eye disease., Skin disorders and Allergies., Adverse skin effects (such as rash, irritation or corrosion)., Adverse eye effects (such as conjunctivitis or corneal damage).

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components

Cycloaliphatic amine	LC0 (96 h) : 46 mg/l	Species : Golden orfe (Leuciscus idus).
Cycloaliphatic amine	LC50 (96 h) : > 100 mg/l	Species : Golden orfe (Leuciscus idus).

Toxicity to daphnia - Components

Cycloaliphatic amine	EC50 (48 h) : 6.84 mg/l	Species : Daphnia magna.
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Toxicity to algae - Components

Cycloaliphatic amine	EC50 (72 h) : 140 - 200 mg/l	Species : Algae.
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Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components

Cycloaliphatic amine	Low bioaccumulation potential.
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13. DISPOSAL CONSIDERATIONS

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Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

UN/ID No. : UN2735
Proper shipping name : Amines, liquid, corrosive, n.o.s., (Cycloaliphatic amine)
Class or Division : 8
Packing group : III
Label(s) : 8
Marine Pollutant : No

IATA

UN/ID No. : UN2735
Proper shipping name : Amines, liquid, corrosive, n.o.s., (Cycloaliphatic amine)
Class or Division : 8
Packing group : III
Label(s) : 8
Marine Pollutant : No

IMDG

UN/ID No. : UN2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S., (Cycloaliphatic amine)
Class or Division : 8
Packing group : III
Label(s) : 8
Marine Pollutant : No

TDG

UN/ID No. : UN2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S., (Cycloaliphatic amine)
Class or Division : 8
Packing group : III
Label(s) : 8
Marine Pollutant : No

Further Information

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

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Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Not on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16. OTHER INFORMATION

HMIS Rating

Health : 3
Flammability : 1
Physical hazard : 0

Prepared by : Evonik, Product Regulatory Department

Telephone : 973-929-8060 Corporate
1-800-345-3148 Chemicals Cust Serv
1-800-752-1597 Gases/Electronics Cust Serv

Preparation Date : 01/21/2017