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#### 1. Identification

#### Product identifier used on the label

# DIMETHYLAMINOETHYL ACRYLATE

#### Recommended use of the chemical and restriction on use

Recommended use\*: Monomer. Recommended use\*: Chemical

Unsuitable for use: Not intended for sale to or use by the general public.

# Details of the supplier of the safety data sheet

Company:

BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

1 10111a111 1 a1k, 143 07 932, 03A

Telephone: +1 973 245-6000

#### **Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357) **Other means of identification**Chemical family: acrylates

## 2. Hazards Identification

#### According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

# Classification of the product

Flam. Liq.	3	Flammable liquids
Acute Tox.	1 (Inhalation - vapour)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	3 (dermal)	Acute toxicity
Skin Corr.	1B	Skin corrosion
Acute Tox. Acute Tox.	4 (oral) 3 (dermal)	Acute toxicity Acute toxicity

<sup>\*</sup> The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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Eye Dam.1Serious eye damageSkin Sens.1Skin sensitization

Aquatic Acute 1 Hazardous to the aquatic environment - acute Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

#### Label elements

Pictogram:



### Signal Word: Danger

#### Hazard Statement:

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H311 Toxic in contact with skin.

H330 Fatal if inhaled. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

#### Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P260 Do not breathe dust/gas/mist/vapours.
P273 Avoid release to the environment.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P284 In case of inadequate ventilation wear respiratory protection.

P243 Take action to prevent static discharges.

P241 Use explosion-proof electrical, ventilating and lighting equipment.
P272 Contaminated work clothing should not be allowed out of the workplace.

P264 Wash contaminated body parts thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P242 Use non-sparking tools.

P240 Ground and bond container and receiving equipment.

#### Precautionary Statements (Response):

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P310 Immediately call a POISON CENTER or physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P361 + P364 Take off immediately all contaminated clothing and wash it before

reuse.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P391 Collect spillage.

P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for

extinction.

Precautionary Statements (Storage):

P233 Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

#### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. See section 12 - Results of PBT and vPvB assessment.

## 3. Composition / Information on Ingredients

#### According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

2-(dimethylamino)ethyl acrylate

CAS Number: 2439-35-2

Content (W/W): >= 99.0 - <= 100.0%

Synonym: 2-Propenoic acid 2-(dimethylamino)ethyl ester; Dimethylaminoethyl

acrylate

**MEHQ** 

CAS Number: 150-76-5 Content (W/W): < 0.5%

Synonym: 4-Methoxyphenol; Hydroquinone monomethyl ether, Mequinol

2-dimethylaminoethanol

CAS Number: 108-01-0 Content (W/W): < 0.1%

Synonym: N,N-Dimethyl(2-hydroxyethyl)amine; 2(Dimethylamino)ethanol, Deanol

The actual concentration is withheld as a trade secret.

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#### 4. First-Aid Measures

# **Description of first aid measures**

#### **General advice:**

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

#### If on skin

Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, seek medical attention.

#### If in eves:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

#### If swallowed:

Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

#### Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, allergic contact dermatitis, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

#### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treat according to symptoms (decontamination, vital functions), no

known specific antidote.

# 5. Fire-Fighting Measures

# **Extinguishing media**

Suitable extinguishing media: dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons: water jet

#### Additional information:

Use extinguishing measures to suit surroundings.

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### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Risk of violent self-polymerization if overheated in a container. Cool endangered containers with water-spray.

The product is combustible. See SDS section 7 - Handling and storage.

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Special protective equipment for firefighters

#### Further information:

Extend fire extinguishing measures to the surroundings. Fight fire from maximum distance. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

In case of a fire in the vicinity a restabilization system should be used if the temperature in the bulk storage-tank reaches 45°C. Evacuate area of all unnecessary personnel. In case of a fire in the vicinity evacuate all personnel in a greater area if the temperature in the bulk storage-tank reaches 60°C.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

# 6. Accidental release measures

#### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

#### Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools. Avoid contact with the skin, eyes and clothing.

Take off immediately all contaminated clothing.

#### **Environmental precautions**

Substance/product is RCRA hazardous due to its properties.

### Methods and material for containment and cleaning up

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations. Ensure adequate ventilation. Suppress gases/vapours/mists with water spray jet. Clean contaminated floors and objects thoroughly with

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water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus. Pick up with suitable appliance and dispose of.

# 7. Handling and Storage

# **Precautions for safe handling**

The substance/ product may be handled only by appropriately trained personnel. Facility parts must be checked for polymer residues and cleaned on regular basis in order to avoid hazardous reactions.

Ensure thorough ventilation of stores and work areas. Encapsulation or exhaust ventilation required. When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary. Vent waste air to atmosphere only through suitable separators. Check the condition of seals and connector screw threads.

The temperatures which must be avoided are to be considered. Protect against heat. Protect from direct sunlight. Protect contents from the effects of light. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade.

Ensure adequate inhibitor and dissolved oxygen level.

Avoid inhalation of dusts/mists/vapours. Avoid aerosol formation. Avoid all direct contact with the substance/product.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Substance/product can form explosive mixture with air. Ground all transfer equipment properly to prevent electrostatic discharge. It is recommended that all conductive parts of the machinery are grounded. Explosion-proof equipment is not necessary when loading and processing of the product takes place at a minimum of 5 °C below the flash point.

Heated containers should be cooled to prevent polymerization. If exposed to fire, keep containers cool by spraying with water. Emergency cooling must be provided for the eventuality of a fire in the vicinity.

Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

# Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Prior to storage ensure that the transfer equipment used and the intended storage containers do not contain other substances/products. Before transfer to stock the identity of the product must be proved to be without doubt. The entrance to storage rooms is to be granted only to appropriately trained personnel.

The stabilizer is only effective in the presence of oxygen. Maintain contact with atmosphere containing 5 - 21% oxygen. Never use tanks with inert-gas installation for storage.

Risk of polymerization. Protect against heat. Protect from direct sunlight. Avoid UV-light and other radiation with high energy. Protect against contamination.

In case of bulk storage, the storage-tanks should at least be equipped with two high temperature alert devices.

Even if the product is stored and handled as prescribed/indicated it should be used up within the indicated duration of storage.

Storage stability:

Storage temperature: < 25 °C

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Storage duration: 6 Months Storage temperature: 40 °C Storage duration: 0.5 Months

The stated storage temperature should be noted.

Avoid prolonged storage.

This product should be processed as soon as possible. Ensure adequate inhibitor and dissolved oxygen level. Do not store with less than 10 % headspace above liquid.

Storage stability is based upon ambient temperatures and conditions described.

It is recommended to keep a safe distance of +2 degrees above the crystallization range.

The product is stabilized, the shelf life should be noted.

Storage temperature: 45 °C

A restabilization system should be used if the temperature in the bulk storage-tank reaches the

indicated value.

Storage temperature: 60 °C

All personnel in a greater area should be evacuated if the temperature in the bulk storage-tank

reaches the indicated value.

# 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

MEHQ ACGIH, US: TWA value 5 mg/m3;

#### Advice on system design:

Ensure adequate ventilation.

## Personal protective equipment

### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. At concentrations < 250 ppm, use a chemical cartridge respirator. At concentrations > 250 ppm, use an air-supplied or self-contained breathing apparatus.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

### **Body protection:**

light protective clothing

#### General safety and hygiene measures:

Avoid inhalation of vapour. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Physical state: liquid
Form: liquid
Odour: amine-like

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Odour threshold: not determined Colour: yellowish

clear

pH value: 10.0

(143 g/l, 20 °C)

Boiling point: 172.8 °C (measured)

(1,013.25 hPa)

Extrapolated value

Flash point: 58 °C (DIN 51755, closed

cup)

Flammability: Flammable. (derived from flash -

and boiling point)

Lower explosion limit: 0.6 %(V)

(45°C)

For liquids not relevant for classification and labelling.

Upper explosion limit: 5.5 %(V)

(88°C)

For liquids not relevant for classification and labelling.

195 °C Autoignition: (DIN 51794)

SADT: Not a substance/mixture liable to self-decomposition according

to GHS.

Vapour pressure: 1 hPa (measured)

> (19.1 °C) dynamic 8 hPa (50°C)

0.938 g/cm3 Density:

(20°C) Literature data.

(OECD Guideline 0.9124 g/cm3

(50°C) 109)

Relative density: 0.938

(20°C)

Literature data.

Relative vapour density: 4.93 (calculated)

(20°C)

Heavier than air.

Partitioning coefficient n-0.43 (calculated)

(25°C) octanol/water (log Pow):

Self-ignition not self-igniting

temperature:

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: 1.34 mPa.s (calculated (from

> (20°C) kinematic viscosity)) 0.96 mPa.s (calculated (from (40°C) kinematic viscosity)) 1.43 mm2/s (OECD Guideline

Viscosity, kinematic: (20°C) 114)

1.04 mm2/s (OECD Guideline

(40°C) 114)

Solubility in water: 240 g/l

(20°C) hydrolyzes

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Solubility (qualitative): miscible

solvent(s): organic solvents,

Molecular weight: 143.19 g/mol

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor

pressure.

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular

form.

# 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

Explosion and fire hazard exists under confined conditions. Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized. Formation of explosive gas/air mixtures.

Polymerization coupled with heat formation.

Risk of spontaneous polymerization by oxygen depletion of the liquid phase. Risk of spontaneous polymerization when heated or in the presence of UV radiation. Risk of spontaneous and violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Polymerization produces gases which may burst closed or confined containers. Reactions may cause ignition.

Risk of spontaneous polymerization in the presence of starters for radical chain reactions (e.g. peroxides). Reacts with nitric acid. Risk of spontaneous polymerization in the presence of oxidizing agents.

Hazardous reactions in presence of mentioned substances to avoid.

The product is stabilized against spontaneous polymerization prior to despatch. The product is stable if stored and handled as prescribed/indicated.

#### Conditions to avoid

Avoid heat. Avoid oxygen content above the product of less than 5 %. Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage. Avoid inhibitor loss. Avoid excessive temperatures. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing. Avoid moisture.

Do not blanket with nitrogen.

#### Incompatible materials

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radical formers, free radical initiators, peroxides, mercaptans, nitro-compounds, perborates, azides, ether, ketones, aldehydes, amines, nitrates, nitrites, oxidizing agents, reducing agents, strong bases, alkaline reactive substances, acid anhydrides, acid chlorides, concentrated mineral acids, metal salts polyvinylchloride lnert gas

# Hazardous decomposition products

#### Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

#### Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

# 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

# **Acute Toxicity/Effects**

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of very high toxicity after short-term inhalation. Of pronounced toxicity after short-term skin contact.

#### Oral

Type of value: LD50 Species: rat (male/female)

Value: > 455 mg/kg (OECD Guideline 401)

#### Inhalation

Type of value: LC50

Species: rat

Value: 0.22 mg/l (BASF-Test)

Exposure time: 4 h

# <u>Dermal</u>

Type of value: LD50 Species: rat (male/female)

Value: 419 mg/kg (OECD Guideline 402)

# Assessment other acute effects

Assessment of STOT single:

Based on available data, the classification criteria are not met.

## Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes.

#### <u>Skin</u>

Species: rabbit Result: Corrosive.

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Method: OECD Guideline 404

Eye

Species: rabbit

Result: irreversible damage

Method: Draize test

Sensitization

Assessment of sensitization: Caused skin sensitization in animal studies.

Guinea pig maximization test

Species: guinea pig Result: skin sensitizing

Method: OECD Guideline 406

Aspiration Hazard not applicable

#### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: After repeated administration the prominent effect is the induction of corrosion.

#### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.

#### Carcinogenicity

Assessment of carcinogenicity: Study does not need to be conducted.

#### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### **Teratogenicity**

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

## 12. Ecological Information

#### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

## Toxicity to fish

LC50 (96 h) 8.49 mg/l, Oryzias latipes (OECD 203; ISO 7346; 84/449/EWG, C.1, semistatic)

#### Aquatic invertebrates

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EC50 (48 h) 9.92 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)

#### Aquatic plants

EC50 (72 h) 0.88 mg/l (growth rate), Selenastrum capricornutum (Guideline 92/69/EEC, C.3, static) The details of the toxic effect relate to the nominal concentration.

#### Chronic toxicity to fish

Study scientifically not justified.

#### Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 3 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

#### Assessment of terrestrial toxicity

Study scientifically not justified.

# Microorganisms/Effect on activated sludge

#### Toxicity to microorganisms

other activated sludge/EC20 (0.5 h): > 1,000 mg/l

# Persistence and degradability

### Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

#### **Elimination information**

96 % (28 d) (OECD 301 A (old version)) (aerobic, municipal sewage treatment plant effluent)

> 95 % (28 d) (OECD 302B; ISO 9888; 88/302/EWG,Teil C) (aerobic, activated sludge)

#### Assessment of stability in water

In contact with water the substance will hydrolyse rapidly.

#### Bioaccumulative potential

#### Assessment bioaccumulation potential

No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow).

#### Bioaccumulation potential

Accumulation in organisms is not to be expected.

#### Mobility in soil

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

#### **Additional information**

### Other ecotoxicological advice:

Do not discharge product into the environment without control.

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# 13. Disposal considerations

#### Waste disposal of substance:

Incinerate or dispose of in a RCRA-licensed facility. Do not discharge into drains/surface waters/groundwater.

#### Container disposal:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

RCRA: None

# 14. Transport Information

#### Land transport

**USDOT** 

Hazard class: 6.1 Packing group: II

ID number: UN 3302 Hazard label: 6.1, EHSM

Proper shipping name: 2-DIMETHYLAMINOETHYL ACRYLATE STABILIZED

# Sea transport

**IMDG** 

Hazard class: 6.1 Packing group: II

ID number: UN 3302 Hazard label: 6.1, EHSM Marine pollutant: YES

Proper shipping name: 2-DIMETHYLAMINOETHYL ACRYLATE STABILIZED

#### Air transport

IATA/ICAO

Hazard class: 6.1
Packing group: II

ID number: UN 3302 Hazard label: 6.1

Proper shipping name: 2-DIMETHYLAMINOETHYL ACRYLATE STABILIZED

# 15. Regulatory Information

# **Federal Regulations**

#### Registration status:

Chemical TSCA, US

All substances are TSCA listed and active.

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

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**State regulations** 

State RTKCAS NumberChemical namePA140-88-5ethyl acrylate

#### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including METHYL ACRYLATE, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

**NFPA Hazard codes:** 

Health: 3 Fire: 2 Reactivity: 1 Special:

**HMIS III rating** 

Health: 3 Flammability: 2 Physical hazard:1

#### 16. Other Information

## SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2025/07/11

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use.

Any other intended applications should be discussed with the manufacturer.

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Date / Previous version: not applicable Previous version: none

END OF DATA SHEET