

Dormex®Version 4.0/ REG_US
Revision Date: 4/15/2020Specification: 132506
Material no.:Date of first issue: 11/11/2011
Print Date: 5/14/2020**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product identifier**

Trade name : Dormex®

EPA Reg. No. : 54555-2

Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Agricultural products

Details of the supplier of the safety data sheetCompany : AlzChem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg
GermanyIn US : AlzChem LLC
11390 Old Roswell Rd.
Suite 124
Alpharetta, GA 30009
USA

Telephone : 770-804-0371

Fax : 770-804-0375

E-mail address of person responsible for the SDS : alz-pst@alzchem.com**Emergency telephone number**

Emergency telephone number : CHEMTREC: (800) 424-9300

2. HAZARDS IDENTIFICATION**Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (oral), Category 3

Acute toxicity (dermal), Category 4

Skin corrosion, Category 1B

Skin sensitization, Category 1

Eye damage, Category 1

Carcinogenicity, Category 2

Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 2

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GHS-Labeling

Hazard pictograms



Signal word

: Danger

Hazard statements

: Toxic if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility. Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**
Obtain special instructions for use.
Do not handle until all safety precautions have been read and understood.
Wash thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
Response:
Immediately call a POISON CENTER or doctor/ physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash with plenty of soap and water.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Storage:
Store locked up.
Disposal:

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Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Violent, exothermic reaction with acids, bases and temperatures above 104°F (40°C).
Use of alcoholic beverages enhances the toxic effects.
The oral take-up may lead to acute dysfunctions of the blood circuit and/or the central nervous system.
Dermal absorption possible.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Mixture (aqueous solution with cyanamide)

Information on ingredients / hazardous components as per OSHA Hazard Communication Standard (29 CFR 1910.1200)

• Cyanamide, carbamionitrile		49–51%
CAS No. 420-04-2		
Acute Toxicity (oral)	Category 3	Toxic if swallowed.
Acute Toxicity (dermal)	Category 3	Toxic in contact with skin.
Skin corrosion	Category 1B	Causes severe skin burns and eye damage.
Skin sensitization	Category 1	May cause an allergic skin reaction.
Carcinogenicity	Category 2	Suspected of causing cancer.
Reproductive toxicity	Category 2	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (repeated exposure)	Category 2	May cause damage to organs through prolonged or repeated exposure.
• Orthophosphoric acid		< 2%
CAS No. 7664-38-2		
Skin corrosion	Category 1B	Causes severe skin burns and eye damage.
Eye Damage	Category 1	Causes serious eye damage.

4. FIRST AID MEASURES**Description of first aid measures**

General advice	: Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing. After absorbing large amounts of substance: Immediately contact a doctor or Poison Control Center, and follow the advice given. Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product call the poison control center at 1-800-222-1222.
If inhaled	: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

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	respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
In case of skin contact	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
In case of eye contact	: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Immediate further treatment in ophthalmic hospital/ ophthalmologist.
If swallowed	: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

Most important symptoms and effects, both acute and delayed

Symptoms	: Erythema Fall in blood pressure Increased pulse frequency Nausea Feeling of burning Headache Irritation of mucous membranes After the intake of large amounts, circulatory depression up to unconsciousness is possible
Risks	: Caution: Alcoholic beverages interact with cyanamide. Symptoms showing flush are possible (difficulty in breathing, bright red face). The symptoms of this interaction disappear rapidly and are generally harmless.

Indication of any immediate medical attention and special treatment needed

Note to physician	: Immediate lavage of stomach. Hydrogen cyanamide is not hydrogen cyanide and does not degrade to hydrogen cyanide. Do not induce vomiting or give anything by mouth to an unconscious person.
Treatment	: No specific antidote known. Symptomatic treatment. After the intake of small amounts: administer activated charcoal, sodium sulfate and much liquid orally. After the intake of large amounts: monitoring of circulatory functions, if necessary irrigation of the stomach preventing aspiration and taking into account the irritating properties to mucous membranes.

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In case of skin irritation, use corticoid containing external preparations.

5. FIREFIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Dry sand
Water spray
Foam

Unsuitable extinguishing media : High volume water jet

Special hazards arising from the substance or mixture

Hazardous combustion products : Product itself is not combustible (Product contains water).

Advice for firefighters

Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

Further information : Containers exposed to heat (fire) may build up pressure. Cool by splashing with water.
Closed container may rupture if strongly heated.
Do not contaminate surface water.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions : Wear personal protective equipment; see section 8.
Ensure adequate ventilation.

Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.
Dike or contain spill.
Shut off source of leak if safe to do so.

Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material, e.g.: saw dust, sand, universal binder
Pour into containers which can be tightly sealed.

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Disposal according to local authority regulations.
Don't use a high-pressure cleaner in order to avoid the formation of aerosols.
Rinse away any residue with plenty of water.

7. HANDLING AND STORAGE**Precautions for safe handling**

- Advice on safe handling : For professional use only.
Use only in well-ventilated areas.
Do not consume alcoholic beverages during handling cyanamide.
Observe the rules usually applicable when handling chemicals.
- Advice on protection against fire and explosion : Keep away from combustible material. Avoid temperatures above 95°F (35°C). Do not concentrate the product by evaporation. May cause violent decomposition.
- Hygiene measures : Contact with skin, eyes and clothes must be strictly avoided. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Do not consume alcoholic beverages prior to, during and 24 hours after handling the product. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished.

Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep away from direct sunlight, open flames and other sources of ignition. Keep locked up. Store in a cool, dry and well ventilated place.
- Advice on common storage : Incompatible with acids and bases.
Keep away from food, drink and animal feeding stuffs.
- Recommended storage temperature : < 68°F (20°C)
- Packaging material : Suitable material: polyethylene, polypropylene, enamel, Austenitic steel

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Airborne Exposure Guidelines****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis

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Cyanamide	420-04-2	TWA	2 mg/m ³	ACGIH® TLVs® NIOSH RELs
		TWA	2 mg/m ³	
Orthophosphoric acid	7664-38-2	TWA	1 mg/m ³	ACGIH® TLVs®
		STEL/CEIL(C)	3 mg/m ³	
		TWA	1 mg/m ³	
		TWA	1 mg/m ³	NIOSH RELs
		STEL/CEIL(C)	3 mg/m ³	

Control parameters**Engineering controls**

Not applicable

Exposure controls

Dependent on the task performed, personal protection must be selected. See detailed instructions on the label.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Personal protective equipment

Eye protection : Protective eyewear

Hand protection	: Chemical-resistant gloves such as Barrier Laminate, or Butyl rubber >= 14 mils, or Nitrile Rubber >= 14 mils, or Neoprene Rubber >= 14 mils, or Polyvinyl Chloride (PVC) >= 14 mils, or Viton >= 14 mils.
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Skin and body protection	: Chemical-resistant protective suit Chemical-resistant footwear plus socks
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Respiratory protection	: If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. Wear a minimum of a NIOSH-approved particulate filtering face piece respirator with any N, R, or P filter; OR a NIOSH approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.
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9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance : Aqueous solution

Color : blue

Odor : Odorless

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Odor threshold	: No data available
pH	: 3.9 – 4.9 (68°F) (20°C)
Melting point/range	: 5°F (-15°C)
Boiling point/range	: No data available
Evaporation rate	: No data available
Flash point	: Not applicable
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapor pressure	: 0.005 hPa (68°F) (20°C) cyanamide
Vapor density	: No data available
Density	: 1.06 g/cm ³ (68°F) (20 °C)
Relative density	: No data available
Water solubility	: Completely miscible (68°F) (20 °C)
Partition coefficient: n-octanol/water	: log P _{ow} : -0.72
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: 1.026 mPa.s (68°F) (20°C)

Other information

Conductivity	: ca. 12 mS/cm at 50°F (10°C)
Metal corrosion rate	: 0.11 mm/a not corrosive to steel 0.06 mm/a not corrosive to aluminium

10. STABILITY AND REACTIVITY**Reactivity**

No data available

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Product is supplied in stabilized form.

Possibility of hazardous reactions

Hazardous reactions : Violent, exothermic reaction.

Conditions to avoid

Conditions to avoid : Temperatures > 95°F (35°C)

Keep away from direct sunlight.

Do not concentrate the product by evaporation. May cause violent decomposition.

Incompatible materialsMaterials to avoid : Acids and bases
Combustible substances**Hazardous decomposition products**

Hazardous decomposition products : Ammonia

11. TOXICOLOGICAL INFORMATION

Product data, component data and/or data for a similar material are summarized below.

Acute toxicity**Data for: Product**Acute oral toxicity : LD50 (rat, male/female): 284 mg/kg
Method: OECD Test Guideline 401
Assessment: Toxic if swallowed.
Remarks: LiteratureAcute inhalation toxicity : LC50 (rat): > 2 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
Assessment: Based on the available data, the classification criteria are not met.
Remarks: maximum concentration in the test: no animals died.
LiteratureAcute dermal toxicity : LD50 (rabbit): 1696 mg/kg
Method: US-EPA-method
Assessment: Harmful in contact with skin.
Remarks: Literature**Data for: cyanamide, carbamonitrile**

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Acute oral toxicity	: LD50 (rat, male/female): 142 mg/kg related to 100% active substance Result: Toxic if swallowed. Remarks: Literature, IUCLID
Acute inhalation toxicity	: Maximum attainable concentration (rat): > 1 mg/l related to 100% active substance Exposure time: 4 h Assessment: Based on the available data, the classification criteria are not met. Remarks: Literature, IUCLID
Acute dermal toxicity	: LD50 (rabbit): 848 mg/kg related to 100% active substance Result: Toxic in contact with skin. Remarks: Literature, IUCLID

Skin corrosion/irritation**Data for: Product**

Species: Human Skin Model
Exposure time: 0.05 - 1 h
Method: OECD Guideline 431 (in Vitro Skin Corrosion: Human Skin Model Test)
Result: Causes burns.
Remarks: Literature, IUCLID

Data for: cyanamide, carbamionitrile

Species: rabbit
Method: OECD Guide-line 404
Result: Causes burns.
Remarks: Literature, IUCLID

Serious eye damage/eye irritation**Data for: Product**

Assessment: Causes serious eye damage.

Data for: cyanamide, carbamionitrile

Assessment: Risk of serious damage to eyes.
Remarks: Due to the result "corrosive" of the acute dermal skin irritation study, no acute eye irritation study was performed.
Remarks: Literature, IUCLID

Respiratory or skin sensitization**Data for: Product**

Assessment: Sensitizing

Data for: cyanamide, carbamionitrile

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Test Type: maximization test
Species: guinea pig
Assessment: May cause sensitization by skin contact.
Remarks: Literature, IUCLID

Germ cell mutagenicity**Data for: cyanamide, carbamonitrile**

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects.
Remarks: Literature, IUCLID

Carcinogenicity**Data for: Product**

Carcinogenicity -
Assessment : Suspected of causing cancer.

Data for: cyanamide, carbamonitrile

Carcinogenicity -
Assessment : Suspected of causing cancer.
Remarks: Literature, IUCLID

Reproductive toxicity**Data for: Product**

Reproductive toxicity -
Assessment : Suspected of damaging fertility. Suspected of damaging the unborn child.

Data for: cyanamide, carbamonitrile

Reproductive toxicity -
Assessment : Suspected of damaging fertility. Suspected of damaging the unborn child.
Remarks: Literature, IUCLID

STOT - single exposure**Data for: cyanamide, carbamonitrile**

Assessment: based on available data, the classification criteria are not met.
Remarks: Literature, IUCLID

STOT - repeated exposure**Data for: Product**

Assessment: May cause damage to organs through prolonged or repeated exposure.

Data for: cyanamide, carbamonitrile

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Remarks: Literature, IUCLID

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Material no.:Date of first issue: 11/11/2011
Print Date: 5/14/2020**Aspiration toxicity****Data for: Product**

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

Experience with human exposure**Data for: Product**General Information: Interactions with alcohol (ethanol).
Alcohol consumption increases the effect of the poison.**Further information****Data for: Product**

Remarks: No additional toxicological data are available.

OSHA Regulated Carcinogens (NTP, IARC, OSHA Listed)

NTP	No component of this product is identified as a known or anticipated carcinogen by NTP.
IARC	No component of this product is identified as a confirmed, probable, or possible carcinogen by IARC.
OSHA	No component of this product is identified as a carcinogen or suspected carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

Data in Section 12 are provided in accordance with EC CLP regulation 1272/2008 as this section is not mandatory under OSHA HazCom 2012 (29 CFR 1910.1200)

Product data, component data, and/or data for a similar material are summarized below.

Ecotoxicity**Ecotoxicology Assessment:**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Data for: ProductToxicity to fish : LC50 (*Oncorhynchus mykiss*): 180 mg/l
Exposure time: 96 h
Method: OECD 204
Remarks: LiteratureNOEC (*Oncorhynchus mykiss*): 7.4 mg/l
Exposure time: 21 d
Method: OECD 204
Remarks: Literature

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 6.5 mg/l
Exposure time: 48 h
Method: OECD 202 part 1
Remarks: Literature
- Toxicity to algae : ErC50 (*Selenastrum capricornutum*): 27.5 mg/l
End point: growth rate
Exposure time: 90 h
Method: OECD 201
Remarks: Literature
- Toxicity to bacteria : EC 10 (*Pseudomonas putida*): 314 mg/l
Remarks: Literature
- Toxicity to terrestrial organisms : LD50: ca. 100 µg/insect
Species: honeybees
Test substance: Product similar composition

Data for: cyanamide, carbamonitrile

- Toxicity to fish : LC50 (*Oncorhynchus mykiss*): related to 100% active substance 90 mg/l
Exposure time: 96 h
Remarks: Literature, IUCLID
- NOEC (*Oncorhynchus mykiss*): related to 100% active substance 3.7 mg/l
Exposure time: 21 d
Remarks: Literature, IUCLID
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): related to 100% active substance 3.2 mg/l
Exposure time: 48 h
Remarks: Literature, IUCLID
- NOEC (*Daphnia magna*): related to 100% active substance 0.1044 mg/l
Exposure time: 21 d
Remarks: Literature, IUCLID
- Toxicity to algae : ErC50 (*Selenastrum capricornutum*): related to 100% active substance 13.5 mg/l
End point: growth rate
Exposure time: 90 h
Remarks: Literature, IUCLID
- Toxicity to bacteria : EC 10 (*Pseudomonas putida*): related to 100% active substance 157 mg/l
Remarks: Literature, IUCLID

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Toxicity to terrestrial organisms : LD50: ca. 100 µg/insect
Species: honeybees
Test substance: 50 % solution
Remarks: Literature, IUCLID

Persistence and degradability**Data for: Product**

Biodegradability : Readily biodegradable under environmental conditions.

Data for: cyanamide, carbamionitrile

Biodegradability : Readily biodegradable under environmental conditions.

Inoculum: activated sludge
Biodegradation: > 99 %
Method: (CO₂; modif. Sturm test / OECD 301 B)
Test substance: 50 % solution
Result: Readily biodegradable
Remarks: Literature, IUCLID

Result: rapidly degradable
Method: Water-sediment test.
Test substance: 50 % solution
Remarks: Biodegradable in the soil (sediment).
Literature, IUCLID

Bioaccumulative potential**Data for: Product**Bioaccumulation : Bioconcentration factor (BCF): 0.05
Method: (calculated)
Remarks: No bioaccumulation is to be expected (log P_{ow} ≤4).**Data for: cyanamide, carbamionitrile**Bioaccumulation : Remarks: No bioaccumulation is to be expected (log P_{ow} ≤4).

Partition coefficient: n-octanol/water : log P_{ow}: -0.8
Remarks: (calculated)
Remarks: Literature, IUCLID

Mobility in soil**Data for: Product**

Distribution among environmental compartments : Assessment: Mobile in soils

Data for: cyanamide, carbamionitrile

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
K_{oc}: ca. 4.38
Result: Mobile in soils

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Remarks: Literature, IUCLID

Other adverse effects
Data for: Product

Additional ecological information : Remarks: Do not allow entrance in sewage water, soil stretches of water, groundwater, and drainage systems.

 Additional ecological information
 Under acid conditions (pH < 4) the product hydrolyses to urea, which is easily biodegradable.

No further ecotoxicological data are available.

Data for: cyanamide, carbamonitrile

Additional ecological information : Remarks: Under acid conditions (pH < 4) the product hydrolyses to urea, which is easily biodegradable.

13. DISPOSAL CONSIDERATIONS
Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations. Open dumping is prohibited.

 Contaminated packaging : **Non-refillable containers:** Do not reuse or refill this container. Follow the detailed instructions for container disposal on the label.

14. TRANSPORT INFORMATION
US Department of Transportation (DOT):

Class	8 (6.1)
Label Codes	8 (6.1)
UN number	2922
Packaging group	II
Proper Shipping Name	Corrosive liquids, toxic, n.o.s. (cont. Cyanamide)

Transport Canada

Class	8 (6.1)
Packaging group	II
Shipping Name and Description	Corrosive liquids, toxic, n.o.s. (cont. Cyanamide)

International Maritime Dangerous Good Code (IMDG Code):

Class	8 (6.1)
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UN number	2922
Packaging group	II
EmS	F-A, S-B
Proper technical name (Proper shipping name)	Corrosive liquids, toxic, n.o.s. (cont. Cyanamide)
Marine pollutant	Yes

Air transport ICAO-TI/IATA-DGR

Class	8 (6.1)
UN number	2922
Packaging group	II
Proper technical name (Proper shipping name)	Corrosive liquids, toxic, n.o.s. (cont. Cyanamide)

Loading instructions/Remarks

IATA_C	ERG-Code 8P
IATA_P	ERG-Code 8P

Special precautions for user

Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****United States – Federal Regulations****Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) – Reportable Quantity (RQ):**

A component (CAS No. 7664-38-2) of this product is CERCLA regulated at or above 5000 lbs.

Emergency Planning and Community Right-to-Know Act (EPCRA):**SARA Title III – Section 302 Components**

The components of this product are not subject to the reporting requirements of SARA Title III, section 302

SARA Title III – Section 304 Components

The components of this product are not subject to the reporting requirements of SARA Title III, section 304

SARA Title III – Section 311/312 Hazards

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

SARA Title III – Section 313 Components

The components of this product are not subject to the reporting requirements of SARA Title III, section 313

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Toxic Substances Control Act (TSCA):

The components of this product are TSCA regulated

United States - State Regulations**California Prop 65**

This product does not intentionally contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive defects.

16. OTHER INFORMATION

This version was prepared on 4/15/2020. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Legend

ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration Factor
c. c.	closed cup
CAS	Chemical Abstract Services
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	Carcinogenic-Mutagenic-toxic for Reproduction
COD	Chemical Oxygen Demand
DIN	German Institute for Standardization
DNEL	Derived No Effect Level
DOT	U.S. Department of Transportation
EINECS	European Inventory of Existing Commercial Chemical Substances
EPCRA	Emergency Planning and Community Right-to-Know Act
GHS	Globally Harmonized System for the Classification and Labelling of Chemicals
GLP	Good Laboratory Practice.
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard (29 CFR 1910.1200) - HazCom 2012
IARC	International Agency for Research on Cancer
IATA DGR	International Air Transport Association – Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organisation - Technical Instructions
IMDG Code	International Maritime Dangerous Goods Code
ISO	International Organization For Standardization
LOAEL	Lowest Observed Adverse Effect Level
LOEL	Lowest Observed Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
(H)NOS	(Hazard) Not Otherwise Specified
NTP	U.S. National Toxicology Program
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	U.S. Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
REL	Recommended Exposure Limit
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
RQ	Reportable Quantity
SARA	Superfunds Amendment and Reauthorization A and Reauthorization Act
TSCA	Toxic Substances Control Act
TWA	Time-weight average exposure concentration
vPvB	Very Persistent, Very Bioaccumulative
VOC	Volatile Organic Compounds
WHO	World Health Organization