

# SAFETY DATA SHEET

## THIRAM 480DP

Version 1.8      Revision Date: 10/26/2015      MSDS Number: 400000004136      Country: US  
Language: Z8

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### SECTION 1. IDENTIFICATION

Product name : THIRAM 480DP

Product code : 400000004136

#### Manufacturer or supplier's details

Company: MacDermid Agricultural Solutions, Inc  
245 Freight St  
Waterbury, CT  
United States of America  
06702  
Telephone : +1 800 423 8569

Prepared by sds.request@arysta.com

Further information for the material safety data sheet :  
sds.request@arysta.com

#### 1.4 Emergency telephone

Emergency telephone: Agriphar Crop Solutions: +1 800 423 8569(24 hours) 800-424-9300  
For additional emergency telephone numbers see section 16 of the  
Safety Data Sheet.

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

Recommended use : Seed treatment  
Fungicide

Restrictions on use : Agriculture, For professional users only.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

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Specific target organ systemic toxicity - repeated exposure : Category 2

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

### GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

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None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Thiram - 4.0 lb/gal  
Thiram - 480 gm/L

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (% w/w)
thiram	137-26-8	>= 30 - < 50
propane-1,2-diol	57-55-6	>= 10 - < 20
urea	57-13-6	>= 1 - < 5
quartz (SiO <sub>2</sub> ) (Fr = 100%)	14808-60-7	>= 0.1 - < 1

### SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.  
Obtain medical attention.

In case of skin contact : Remove contaminated clothing and shoes.  
Wash off with warm water and soap.  
If symptoms persist, call a physician.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water  
for at least 15 minutes.  
If symptoms persist, call a physician.

If swallowed : Do NOT induce vomiting.  
Rinse mouth with water.  
Obtain medical attention.

Most important symptoms and effects, both acute and delayed : Eye irritation  
Skin irritation  
Allergic reactions  
Symptoms may be delayed.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.

Notes to physician : The first aid procedure should be established in consultation  
with the doctor responsible for industrial medicine.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - large fires  
Alcohol-resistant foam  
(on small fires)

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Carbon dioxide (CO2)  
Dry chemical  
Water spray

Unsuitable extinguishing media : Water spray jet

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for fire-fighters : Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus (EN 133)

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.  
Avoid contact with skin and eyes.

Environmental precautions : Prevent leaks and prevent soil / water pollution caused by leaks.

Methods and materials for containment and cleaning up : Absorb on inert material such as sand, earth, vermiculite.  
Collect for disposal.  
Dam up.  
Large spills should be collected mechanically (remove by pumping) for disposal.  
Pump excess material into suitable container (metal drums, metal tank, or such).  
  
In accordance with local and national regulations.

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### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not eat, drink or smoke when using this product.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapor or mist.  
Use with adequate ventilation.  
Wash thoroughly after handling.

Conditions for safe storage : Protect from freezing. Store above 0° C (32°F).  
Keep at temperatures below 50 °C.  
  
Keep in a dry, cool place.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type	Control parameters	Basis
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		(Form of exposure)	/ Permissible concentration	
thiram	137-26-8	TWA (Inhalable fraction and vapor)	0.05 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
		TWA	5 mg/m3	NIOSH REL
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
urea	57-13-6	TWA	10 mg/m3	US WEEL
quartz (SiO <sub>2</sub> ) (Fr = 100%)	14808-60-7	TWA (Respirable fraction)	0.025 mg/m3	ACGIH
		TWA (total dust)	30 mg/m3 / %SiO <sub>2</sub> +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA Z-3
		TWA (respirable)	10 mg/m3 / %SiO <sub>2</sub> +2	OSHA Z-3
		TWA (Respirable fraction)	0.1 mg/m3	OSHA P0
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL

### Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : impervious clothing

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : light cream

Odor : No data available

Odor Threshold : No data available

pH : 6.5 - 7.5

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Solidification point : -9 - -7 °C  
: No data available

Flash point : does not flash

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : ca. 1.143 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : dispersible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Self-Accelerating decomposition temperature (SADT) : Method: No information available.

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### SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Stable under recommended storage conditions.

Incompatible materials : Strong acids  
Strong bases

Hazardous decomposition products : Burning produces obnoxious and toxic fumes.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat, female): 2,950 mg/kg  
LD50 (Rat, male): 4,430 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg

##### Ingredients:

###### **thiram:**

Acute oral toxicity : LD50 (Rat, female): 1,800 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 3.46 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

###### **propane-1,2-diol:**

Acute oral toxicity : LD50 (Rat): 20,000 mg/kg  
LD50 (Rabbit): 18,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 20,800 mg/kg

###### **urea:**

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

#### Skin corrosion/irritation

##### Product:

Species: Rabbit  
Result: slight irritation

##### Ingredients:

###### **thiram:**

Species: Rabbit  
Result: No skin irritation

###### **urea:**

Species: Rabbit  
Exposure time: 24 h

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Result: No skin irritation

### Serious eye damage/eye irritation

#### Product:

Species: Rabbit  
Result: Moderate eye irritation

#### Ingredients:

##### **thiram:**

Species: Rabbit  
Result: Irritating to eyes.  
Assessment: Irritating to eyes.

##### **urea:**

Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405  
GLP: yes

### Respiratory or skin sensitization

#### Product:

Species: Guinea pig  
Result: May cause sensitization by skin contact.

#### Ingredients:

##### **thiram:**

Species: Guinea pig  
Assessment: May cause sensitization by skin contact.  
Result: Causes sensitization.

##### **urea:**

Species: Guinea pig  
Assessment: Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

#### Ingredients:

##### **thiram:**

Genotoxicity in vitro

- : Species: Salmonella typhimurium  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: positive
- : Species: Chinese hamster ovary cells  
Result: negative
- : Species: Chinese hamster ovary cells  
Method: In Vitro mammalian Cell Gene Mutation Test  
Result: negative



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Genotoxicity in vivo : Test Type: Mammalian bone marrow chromosome aberration test  
Species: Mouse  
Result: negative

Germ cell mutagenicity - Assessment : negative

**urea:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**quartz (SiO<sub>2</sub>) (Fr = 100%):**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay  
Result: negative

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**Ingredients:**

**thiram:**

Species: Rat  
Application Route: Oral  
NOAEL: NOAEL (No observed adverse effect level): 1.5 mg/kg bw/day

Carcinogenicity - Assessment : negative

**urea:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**quartz (SiO<sub>2</sub>) (Fr = 100%):**

Carcinogenicity - Assessment : Human carcinogen.

### **IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Group 1: Carcinogenic to humans

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quartz (SiO<sub>2</sub>) (Fr = 100%)      14808-60-7

### OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Known to be human carcinogen

quartz (SiO<sub>2</sub>) (Fr = 100%)      14808-60-7

### Reproductive toxicity

#### Ingredients:

##### **thiram:**

Effects on fertility

: Species: Rat  
General Toxicity Parent: NOAEL (No observed adverse effect level): 2.3 mg/kg bw/day  
General Toxicity F1: No observed adverse effect level F1: 9 mg/kg bw/day  
Early Embryonic Development: No observed adverse effect level F2: 3 mg/kg bw/day

Effects on fetal development

: Species: Rabbit  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 10 mg/kg bw/day  
Teratogenicity: NOAEL (No observed adverse effect level): 10 mg/kg bw/day

Species: Rat  
Teratogenicity: NOAEL (No observed adverse effect level): 7.5 mg/kg bw/day

Reproductive toxicity - Assessment

: negative  
negative

##### **urea:**

Reproductive toxicity - Assessment

: No toxicity to reproduction  
No effects on or via lactation

### STOT-single exposure

#### Product:

Remarks: No data available

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### STOT-repeated exposure

#### Ingredients:

##### **urea:**

Routes of exposure: Oral

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **quartz (SiO<sub>2</sub>) (Fr = 100%):**

Routes of exposure: Inhalation

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Ingredients:

##### **thiram:**

Species: Rat

NOAEL: 2.5 mg/kg

Application Route: Oral

Exposure time: 90 d

Target Organs: Stomach

Species: Rabbit

NOAEL: 300 mg/kg

Application Route: Dermal

Exposure time: 21 d

Species: Dog

NOAEL: 2 mg/kg

Application Route: Oral

Exposure time: 90 d

Target Organs: Liver

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ingredients:

##### **thiram:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.046 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.011 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.065 mg/l  
Exposure time: 120 h  
Test Type: static test

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : (Daphnia magna (Water flea)): 0.008 mg/l  
Exposure time: 21 d

**urea:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 5,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): > 10,000 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

### Persistence and degradability

**Ingredients:**

**thiram:**

Biodegradability : Result: Not readily biodegradable.

**urea:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 93 - 98 %  
Exposure time: 24 h  
Remarks: Ultimate aerobic biodegradation

### Bioaccumulative potential

**Ingredients:**

**thiram:**

Partition coefficient: n-octanol/water : log Pow: 2.1

**urea:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 1  
Exposure time: 3 d

Partition coefficient: n-octanol/water : log Pow: -1.59 (25 °C)  
Method: OECD Test Guideline 107

### Mobility in soil

No data available

### Other adverse effects

**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I

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### Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Toxic to aquatic organisms.  
The following information is applicable to a component of this material:

### Ingredients:

#### **thiram:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

#### **urea:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : In accordance with local and national regulations.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulation**

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (thiram)  
Class : 9  
Packing group : III  
Labels : 9

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (thiram)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

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### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

propane-1,2-diol	57-55-6	10 %
urea	57-13-6	1 %

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

disodium hydrogenor- thophosphate	7558-79-4	0.1 %
naphthalene	91-20-3	0 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

disodium hydrogenor- thophosphate	7558-79-4	0.1 %
naphthalene	91-20-3	0 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

quartz (SiO <sub>2</sub> ) (Fr = 100%)	14808-60-7
naphthalene	91-20-3

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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### FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

The hazard information required on the pesticide label is reproduced below.

CAUTION

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Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist or vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Consumption of alcoholic beverages increases the toxic effects of thiram.

This pesticide product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Do not use or store near heat or open flame.

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECL - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods



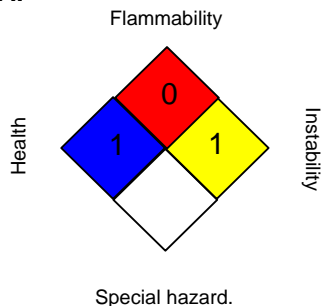
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### Further information

#### NFPA:



#### HMIS III:

HEALTH	<b>2*</b>
FLAMMABILITY	<b>1</b>
PHYSICAL HAZARD	<b>1</b>

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

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The information provided in this Material 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.

US / Z8

### Carechem24 International Worldwide Coverage

#### Emergency Phone Number

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670
<u>Asia Pacific:</u>	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China	+86 532 8388 9090
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 0800 100 7479

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	Sri Lanka	+65 3158 1195
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	South Africa	+27 21 300 2732
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
<u>Latin America:</u>	Brazil	+55 11 3197 5891
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670