

# SAFETY DATA SHEET

### **Group 1- White Grade II Tie Gum**

## **Section 1. Identification**

**GHS** product identifier : Group 1- White Grade II Tie Gum

: Not available. **Product code** : Not available. Other means of identification

**Product type** : Solid.

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

#### **Identified uses**

Unvulcanized Custom Mixed Rubber Compound.

Supplier's details : Fenner Dunlop Conveyor Belting

654 Camp Joy Road, Building 2 Suite B

Bluefield, Virginia 24605

**USA** 

Tel.: 276-322-1426

**Emergency telephone** number (with hours of

operation) (24/7)

: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3877

Registration number: 8338

# Section 2. Hazard(s) identification

**OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the : SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (ACUTE) - Category 3 substance or mixture

AQUATIC HAZARD (LONG-TERM) - Category 3

#### **GHS** label elements

**Hazard pictograms** 



Signal word : Warning

**Hazard statements** : H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

**Prevention** : P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing dust.

P272 - Contaminated work clothing should not be allowed out of the workplace.





### Section 2. Hazard(s) identification

: P362 + P364 - Take off contaminated clothing and wash it before reuse. Response

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, national **Disposal** 

and international regulations.

**Hazards not otherwise** 

classified (US)

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture : Not available. Other means of

identification

Ingredient name	% (w/w)	CAS number
Silica gel, pptd., crystfree	10 - 30	112926-00-8
Titanium dioxide	5 - 10	13463-67-7
Distillates (petroleum), hydrotreated heavy naphthenic	3 - 7	64742-52-5
Zinc oxide	1 - 5	1314-13-2
Urea	1 - 5	57-13-6
4-(1-Methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]aniline	0.5 - 1.5	10081-67-1
Sulfur	0.5 - 1.5	7704-34-9
N-cyclohexylbenzothiazole-2-sulphenamide	0.1 - 1	95-33-0
Thiram	0.1 - 1	137-26-8
N-(cyclohexylthio)phthalimide	0.1 - 1	17796-82-6

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20

minutes. Get medical attention if irritation occurs.

Inhalation

**Skin contact** 

**Eye contact** 

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.





### Section 4. First aid measures

### Ingestion

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

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

#### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Adverse symptoms may include the following:

irritation redness

**Ingestion** : No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Skin contact

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

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides



### Section 5. Fire-fighting measures

Special protective actions for fire-fighters

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

Special protective equipment for fire-fighters

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

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.



### Section 7. Handling and storage

including any incompatibilities

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

## Section 8. Exposure controls/personal protection

### **Control parameters**

**United States** 

Occupational exposure limits

Ingredient name	Exposure limits
Silica gel, pptd., crystfree	NIOSH REL (United States, 10/2016).
	TWA: 6 mg/m³ 10 hours.
Titanium dioxide	ACGIH TLV (United States, 3/2020).
	TWA: 10 mg/m³ 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m³ 8 hours. Form: Total dust
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 3/2019).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m³ 10 hours. Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
	OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours.
70	
Zinc oxide	NIOSH REL (United States, 10/2016).
	CEIL: 15 mg/m³ Form: Dust
	TWA: 5 mg/m³ 10 hours. Form: Dust and fumes
	STEL: 10 mg/m³ 15 minutes. Form: Fume
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2020).
	TWA: 2 mg/m³ 8 hours. Form: Respirable
	fraction
	STEL: 10 mg/m³ 15 minutes. Form:
	Respirable fraction
Urea	AIHA WEEL (United States, 7/2020).
	TWA: 10 mg/m³ 8 hours.
4-(1-Methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]aniline	None.
Sulfur	None.
N-cyclohexylbenzothiazole-2-sulphenamide	None.
Thiram	NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m³ 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³ 8 hours.
	ACGIH TLV (United States, 3/2020). Sk sensitizer.



# Section 8. Exposure controls/personal protection

TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction and vapor N-(cyclohexylthio)phthalimide None.

### **Canada**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Silica gel, pptd., crystfree	CA British Columbia Provincial (Canada, 1/2020).
	TWA: 1.5 mg/m³ 8 hours. Form: Respirable <b>CA Quebec Provincial (Canada, 7/2019).</b> TWAEV: 6 mg/m³ 8 hours. Form: Respirable
	dust. CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.
Titanium dioxide	CA British Columbia Provincial (Canada, 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable
	fraction CA Quebec Provincial (Canada, 7/2019).
	TWAEV: 10 mg/m³ 8 hours. Form: Total dust.
	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 mg/m³ 8 hours.
	CA Saskatchewan Provincial (Canada, 7/2013).
	STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.
Distillates (petroleum), hydrotreated heavy naphthenic	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist
	15 min OEL: 10 mg/m³ 15 minutes. Form: Mist
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist
Zinc oxide	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 2 mg/m³ 8 hours. Form:
	Respirable 15 min OEL: 10 mg/m³ 15 minutes. Form:
	Respirable
	CA British Columbia Provincial (Canada,
	1/2020). TWA: 2 mg/m³ 8 hours. Form: Respirable
	STEL: 10 mg/m³ 15 minutes. Form:
	Respirable
	CA Saskatchewan Provincial (Canada, 7/2013).
	STEL: 10 mg/m³ 15 minutes. Form:
	Respirable dust and fume. TWA: 2 mg/m³ 8 hours. Form: Respirable
	i www. z mg/m o nours. Form. Respirable



### Section 8. Exposure controls/personal protection

dust and fume.

CA Ontario Provincial (Canada, 6/2019).

TWA: 2 mg/m³ 8 hours. Form: Respirable

particulate matter

STEL: 10 mg/m³ 15 minutes. Form:

Respirable particulate matter

CA Quebec Provincial (Canada, 7/2019). TWAEV: 5 mg/m³ 8 hours. Form: fume STEV: 10 mg/m³ 15 minutes. Form: fume

AIHA WEEL (United States, 7/2020).

TWA: 10 mg/m<sup>3</sup> 8 hours.

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 10 mg/m<sup>3</sup> 8 hours.

CA Ontario Provincial (Canada, 6/2019).

TWA: 0.05 mg/m³ 8 hours. Form: Inhalable

fraction and vapor

CA Alberta Provincial (Canada, 6/2018).

8 hrs OEL: 1 mg/m<sup>3</sup> 8 hours.

CA British Columbia Provincial (Canada,

**1/2020). Skin sensitizer.** TWA: 1 mg/m<sup>3</sup> 8 hours.

CA Quebec Provincial (Canada, 7/2019).

TWAEV: 5 mg/m<sup>3</sup> 8 hours.

CA Saskatchewan Provincial (Canada,

7/2013).

STEL: 3 mg/m³ 15 minutes. TWA: 1 mg/m³ 8 hours.

Appropriate engineering controls

Urea

Sulfur

Thiram

**Environmental exposure** controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.



### Section 8. Exposure controls/personal protection

**Body protection** : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

: Based on the hazard and potential for exposure, select a respirator that meets the **Respiratory protection** 

> appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### **Appearance**

: Solid. [Opaque.] **Physical state** 

Color White. Odor : None.

Not applicable. **Odor threshold** pН : Not available. Melting point/freezing point : Not available. **Boiling point, initial boiling** : Not available.

point, and boiling range

: Not applicable. Flash point : Not available. **Evaporation rate Flammability** Not available.

Lower and upper explosion limit/flammability limit

: Not applicable.

Vapor pressure : Not available. Relative vapor density : Not applicable.

Relative density

Solubility : Insoluble in water.

Solubility in water Insoluble. Miscible with water : Not available. Partition coefficient: n-Not applicable.

octanol/water

Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not available. **Viscosity** : Not applicable. Flow time (ISO 2431) : Not available.

Particle characteristics

Median particle size : Not available.



## Section 10. Stability and reactivity

Reactivity : No spec

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

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

### **Section 11. Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
Urea	LD50 Oral	Rat	8471 mg/kg	-
4-(1-Methyl-1-phenylethyl)-N- [4-(1-methyl-1-phenylethyl) phenyl]aniline	LD50 Oral	Rat	>10000 mg/kg	-
N-cyclohexylbenzothiazole- 2-sulphenamide	LD50 Dermal	Rabbit	>7940 mg/kg	-
•	LD50 Oral	Rat	5300 mg/kg	-
Thiram	LC50 Inhalation Dusts and mists	Rat	4420 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	560 mg/kg	-
N-(cyclohexylthio)phthalimide	LD50 Dermal	Rabbit	>5 g/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
N-cyclohexylbenzothiazole- 2-sulphenamide	Eyes - Mild irritant	Rabbit	-	100 %	-
•	Skin - Mild irritant	Rabbit	-	100 %	_
Thiram	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Rabbit	-	100 %	-
N-(cyclohexylthio)phthalimide	Eyes - Mild irritant	Rabbit	-	70 mg	-

### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

### **Carcinogenicity**





## **Section 11. Toxicological information**

### **Classification United States**

Product/ingredient name	OSHA	IARC	NTP
Silica gel, pptd., crystfree	-	3	-
Titanium dioxide	-	2B	-
Thiram	-	3	-

### **Classification Canada**

Product/ingredient name	IARC	NTP	ACGIH
Silica gel, pptd., crystfree	3	-	-
Titanium dioxide	2B	-	A4
Thiram	3	-	A4

#### Reproductive toxicity

There is no data available.

### **Teratogenicity**

There is no data available.

### Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Thiram	Category 2	-	-

#### **Aspiration hazard**

There is no data available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Dermal.

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Adverse symptoms may include the following:

irritation redness

**Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** : No known significant effects or critical hazards.

effects





## **Section 11. Toxicological information**

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

**Potential immediate** : No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### Numerical measures of toxicity

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Urea	8471	N/A	N/A	N/A	N/A
N-cyclohexylbenzothiazole-2-sulphenamide	5300	N/A	N/A	N/A	N/A
Thiram	560	N/A	N/A	N/A	4.42

## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Titanium dioxide	Acute LC50 >1000000 μg/L Marine water	Fish - Fundulus heteroclitus	96 hours
Zinc oxide	Acute IC50 1.85 mg/L Marine water	Algae - Skeletonema costatum	96 hours
	Acute IC50 46 μg/L Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential growth	
		phase	
	Acute LC50 98 μg/L Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Urea	Acute EC50 6573.1 mg/L Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute EC50 3910000 µg/L Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 2 g/L Fresh water	Fish - Heteropneustes fossilis	30 days
Sulfur	Acute LC50 >100 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Thiram	Acute EC50 1000 μg/L Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Acute EC50 0.04 mg/L Marine water	Algae - Nannochloropsis oculata	72 hours
	Acute LC50 0.02 mg/L Marine water	Crustaceans - Artemia	48 hours
		franciscana - Nauplii	
	Acute LC50 0.01 mg/L Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 0.007 mg/L Fresh water	Fish - Rasbora heteromorpha	96 hours
	Chronic NOEC 1.1 ppb Fresh water	Fish - Pimephales promelas	210 days



### **Section 12. Ecological information**

### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Zinc oxide	-	28960	high
Urea	<-1.73	-	low
N-cyclohexylbenzothiazole-	5	-	high
2-sulphenamide			
Thiram	1.8	3.39	low
N-(cyclohexylthio)phthalimide	2.82 to 3.56	-	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN3077	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiram)	-	-	-
Transport hazard class(es)	9	-	-	-
Packing group	III	-	-	-
Environmental hazards	Yes.	No.	No.	No.

**AERG** : 171





### **Section 14. Transport information**

DOT (RQ) Details

: Thiram 10 lbs / 4.54 kg

**Additional information** 

**DOT Classification** 

: Non-bulk packages of this product are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.

Reportable quantity 6666.7 lbs / 3026.7 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity)

transportation requirements.

**IATA** The environmentally hazardous substance mark may appear if required by other

transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

## **Section 15. Regulatory information**

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Zinc oxide

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : SKIN SENSITIZATION - Category 1

Composition/information on ingredients



### **Section 15. Regulatory information**

Name	%	Classification
4-(1-Methyl-1-phenylethyl)-N-[4- (1-methyl-1-phenylethyl)phenyl] aniline	≥1 - ≤3	SKIN SENSITIZATION - Category 1
Sulfur	≥1 - ≤3	FLAMMABLE SOLIDS - Category 2
		SKIN CORROSION/IRRITATION - Category 2
N-cyclohexylbenzothiazole-	≥0.3 - ≤0.82	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
2-sulphenamide		SKIN SENSITIZATION - Category 1
Thiram	≤0.15	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN CORROSION/IRRITATION - Category 2
		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
N-(cyclohexylthio)phthalimide	≤0.15	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B SKIN SENSITIZATION - Category 1A

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Zinc oxide	1314-13-2	≥1 - ≤3
Supplier notification	Zinc oxide	1314-13-2	≥1 - ≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts

: The following components are listed: Silica gel, pptd., cryst.-free; Titanium dioxide; Distillates (petroleum), hydrotreated heavy naphthenic; Zinc oxide; Sulfur

**New York** 

: None of the components are listed.

**New Jersey** 

: The following components are listed: Silica gel, pptd., cryst.-free; Titanium dioxide; Zinc oxide; Sulfur; Thiram

**Pennsylvania** 

: The following components are listed: Silica gel, pptd., cryst.-free; Titanium dioxide; Zinc oxide; Sulfur

#### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### **Canadian lists**

Canadian NPRI : The following components are listed: Zinc oxide

**CEPA Toxic substances**: None of the components are listed.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**





### Section 15. Regulatory information

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Canada : Not determined.

**United States (TSCA 8b)** : All components are active or exempted.

### Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
AQUATIC HAZARD (ACUTE) - Category 3	Calculation method Calculation method Calculation method

### **History**

Date of issue/Date of

Date of previous issue

revision

: 11/30/2018

: 01/30/2022

**Version** 

**Prepared by** Key to abbreviations : KMK Regulatory Services Inc. : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group **UN = United Nations** 

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

