

Revision number: 1 Revision date: 10/06/2014

## 1. IDENTIFICATION

Product name: Product code: Clotrimazole C2867

Product use: Restrictions on use:

#### Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

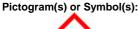
Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Harmful if swallowed





Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: Substance Clotrimazole >98.0%(HPLC)(T)

For laboratory research purposes. Not for drug or household use.

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SAFETY DATA SHEET

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

**TCI** America

Emergency procedures:

TCI AMERICA

Clotrimazole	TCI AMERICA	Page 2 of 5
3. COMPOSITION/INFORMATIO	N ON INGREDIENTS	
CAS Number:	23593-75-1	
Molecular Weight:	344.84	
Chemical Formula:	C <sub>22</sub> H <sub>17</sub> CIN <sub>2</sub>	
Synonyms:	1-(2-Chlorotrityl)imidazole, 1-[(2-Chlorophenyl)diphenylmethyl]imidazole	
4. FIRST-AID MEASURES		
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give is not breathing. Administer oxygen if breathing is difficult. Keep victim warm symptomatically and supportively. Ensure that medical personnel are aware take precautions to protect themselves.	and quiet. Treat of the material(s) involved and
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and wash contamin Remove and isolate contaminated clothing and shoes. In case of contact with flush skin with running water for at least 20 minutes. Treat symptomatically a medical personnel are aware of the material(s) involved and take precautions	th substance, immediately and supportively. Ensure that
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping material may irritate or burn eyes. Call emergency medical service. Move vic remove any contact lenses. Keep victim warm and quiet. Treat symptomatica exposure to substance may be delayed. Ensure that medical personnel are a involved and take precautions to protect themselves.	g eyelids open. Contact with tim to fresh air. Check for and ally and supportively. Effects o
Ingestion:	Harmful if swallowed. Do not induce vomiting with out medical advice. If swal immediately and show the container or label. Do not use mouth-to-mouth me substance; give artificial respiration with the aid of a pocket mask equipped v proper respiratory medical device. Loosen tight clothing such as a collar, tie, vomits place them in the recovery position so that vomit will not reenter the n Keep victim warm and quiet. Treat symptomatically and supportively. Ensure aware of the material(s) involved and take precautions to protect themselves	ethod if victim ingested the with a one-way valve or other belt or waistband. If a person nouth and throat. Rinse mouth e that medical personnel are
Symptoms/effects:		
Acute: Delayed:	Redness. No data available	
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth- the inhaled material is harmful. If breathing has stopped, perform artificial res treatment according to the nature of the injury. Ensure that medical personne involved and take precautions to protect themselves.	spiration. Use first aid
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> , sand, earth, water spray or regular foam Consult with loc attempting large scale fire fighting operations.	cal fire authorities before
Specific hazards arising from the ch	emical	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Halogenated compo WARNING: Highly toxic HCI gas is produced during combustion.	ounds
Special precautions for fire-fighters		
	hight streams. Dike fire-control water for later disposal; do not scatter the material. Co i if you can do it without risk.	ontainers may explode when
Wear positive pressure self-contained	breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limi tuations. Wear chemical protective clothing which is specifically recommended by th	
6. ACCIDENTAL RELEASE MEA	SURES	
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upw damaged containers or spilled material unless wearing appropriate protective unnecessary personnel to move away. Stop leak if you can do it without risk.	e clothing (Section 8). Warn . Ensure adequate ventilation.
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected pers Wear eye protection (splash goggles) and face protection (full length face sh respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.	ield). Lab coat. Dust

respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile). Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the

Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

## 6. ACCIDENTAL RELEASE MEASURES

## Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:** 

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilatio should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

Exposure limits:

No data available

## Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	147°C (297°F) No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	4.9	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive lim Lower: No data Upper: No data	available

Solubility(ies): Water: Insoluble Very soluble: Dichloromethane Soluble: Methanol, Ethanol, Dimethylformamide(DMF) Very slightly soluble: Ether

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents **TCI AMERICA** 

10. STABILITY AND REACTIVITY				
Hazardous Decomposition Products:	No data available			
11. TOXICOLOGICAL INFORMATIO	N			
RTECS Number: NI4377000				
Acute Toxicity:				
orl-rat LD50:708 mg/kg		ipr-rat LD50:445 mg/kg	9	
ivn-mus LD50:198 mg/kg				
Skin corrosion/irritation:				
No data available				
Conierro aus demonstrations				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization:				
No data available				
Germ cell mutagenicity:				
No data available				
Consissementation				
Carcinogenicity:				
No data available				
		NI 17 111		NI 177 111
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity:	NTP:			No data available
	NTP:	No data available scu-mus TDLo:600 mg		No data available
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# 13. DISPOSAL CONSIDERATIONS

**Disposal of product:** 

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

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13. DISPOSAL CONSIDERATIONS Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

## **15. REGULATORY INFORMATION**

## Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

#### **US Federal Regulations**

#### **CERCLA Hazardous substance and Reportable Quantity:**

SARA 313:	Not Listed
SARA 302:	Not Listed

#### State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

#### **Other Information**

### **NFPA Rating:**

Health:	1
Flammability:	0
Instability:	0

#### International Inventories

WHMIS hazard class: Canada: DSL EC-No: D2B: Materials causing other toxic effects. (Toxic) On DSL 245-764-8

HMIS Classification: Health:

Flammability:

Physical:

1

0

0

### 16. OTHER INFORMATION

## Revision date: 10/06/2014 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.