

## OCTOCURE ZDM-50

Version 1.2      Revision Date: 01/08/2016      MSDS Number: F000000499      Date of last issue: 12/23/2015  
Date of first issue: 12/23/2015

**SECTION 1. IDENTIFICATION**

Product name : OCTOCURE ZDM-50

Product code : F000000499

**Manufacturer or supplier's details**

Company name of supplier : Tiarco Chemical Company

Address : 1300 Tiarco Drive  
Dalton GA 30721

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation, Eye irritation : Category 2

**GHS Label element**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H320 Causes eye irritation.  
H317 May cause an allergic skin reaction.  
H402 Harmful to aquatic life.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
ZINC DIMETHYLDITHIOCARBAMATE	Not Assigned	>= 45 - <= 55

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**SECTION 4. FIRST AID MEASURES**

- If inhaled : Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Call a physician or poison control centre immediately.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.
- If swallowed : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : None known.
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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist
- Specific hazards during fire-fighting : Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.
- Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.
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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.
- Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.
- Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.
- Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.
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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

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**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.
- Hand protection  
Material : Impervious gloves
- Eye protection : Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield
- Skin and body protection : Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.
- Protective measures : Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures : Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : off-white
- Odour : characteristic
- pH : 9.0 - 10.0
- Melting point/range : No data available
- Boiling point/boiling range : > 200 °F
- Flash point : > 200 °F
- Vapour pressure : No data available

# SAFETY DATA SHEET



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Density : 1,170 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : not determined

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

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.  
Heat, flames and sparks.

Incompatible materials : Oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

**Product:**

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

#### Skin corrosion/irritation

**Product:**

Remarks: This information is not available.

#### Serious eye damage/eye irritation

**Product:**

Remarks: Eye irritation

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**Respiratory or skin sensitisation****Product:**

Remarks: This information is not available.

**Carcinogenicity****IARC**

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

**OSHA**

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

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish :  
Remarks: No data availableToxicity to daphnia and other aquatic invertebrates :  
Remarks: No data availableToxicity to algae :  
Remarks: No data available**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.

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Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA-DGR**

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
 (ZINC DIMETHYLDITHIOCARBAMATE, DISPERSION)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964

**IMDG-Code**

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
 N.O.S.  
 Class : 9  
 Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : no

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

Not applicable for product as supplied.

**National Regulations****49 CFR**

UN/ID/NA number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,  
 N.O.S.  
 (ZINC DIMETHYLDITHIOCARBAMATE, DISPERSION)  
 Class : 9  
 Packing group : III  
 Labels : CLASS 9  
 ERG Code : 171  
 Marine pollutant : no

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**SECTION 15. REGULATORY INFORMATION**

## OCTOCURE ZDM-50

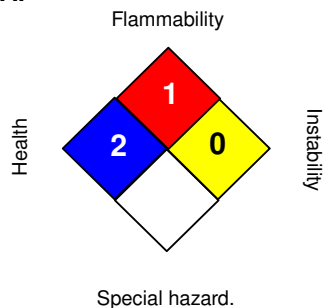
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- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16. OTHER INFORMATION

## Further information

## NFPA:



## HMIS III:

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

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

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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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