

OCTOCURE ZDB-50 CF

1. Material / preparation and company designation

Company: Tiarco Chemical Company
1300 Tiarco Drive
Dalton, GA 30720

Emergency phone (CHEMTREC): (800) 424-9300 **(CHEMTREC INTERNATIONAL):** (703) 527-3887
Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (dwelch@trcc.com)

Date Printed: 12/10/2012
Date Revised: 08/07/12
Supercedes: 12/08/11

Usage: Industrial

2. Possible hazards

This material may irritate the eyes upon contact and may be an ingestion irritant. Prolonged or repeated contact may cause skin irritation. This product is not for human consumption; use proper precautions.

3. List / data of components

Information on hazardous ingredients: Zinc Compound, Category Code N982
Refer to Section 15: Regulations

Chemical name: OCTOCURE ZDB-50 CF	%w/w
Product code: FT-CUR-20C	Hazard symbol: N/A
CAS-no. 136-23-2	H-phrases: N/A
EC-no.: 205-232-8	P-phrases: P273
Formula: Zinc Dibutyldithiocarbamate	50%
Water/Dispersants/Rheology Modifier	50%

See section 16 for the full text of the Hazard symbols and R-phrases.

4. First aid measures

Inhalation: Remove to fresh air immediately and consult medical attention from a licensed healthcare professional.

Skin contact: Wash affected area immediately in flowing water (warm if readily available) for at least 15 minutes (carefully remove contaminated or protective clothing while washing) and consult medical attention from a licensed healthcare professional.

Eye contact: Flush eyes immediately with plenty of water for 15 minutes including under upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a licensed healthcare professional as soon as possible.

Ingestion: If conscious, dilute with 3-4 glasses of water (never give anything by mouth if victim is unconscious or having convulsions); seek medical attention from a licensed healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.

OCTOCURE ZDB-50 CF

5. Measures in case of fire

Suitable extinguishing media: Foam, CO₂, Dry Chemical, Water Fog.

Hazardous decomposition/combustion products: Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

Special protective equipment for fire fighters: None; this product is non-flammable in aqueous form (as supplied).

Other information: None known; non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Firefighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing. Use water fog to cool containers exposed to extreme heat.

6. Accidental release procedures

personal precautions: Use protective equipment. NIOSH-approved Self-contained breathing apparatus must be available in case of emergency. Use caution to avoid falls.

environmental precautions: Ventilate area and evacuate non-essential personnel. Dike and contain spill for possible recovery and to prevent from entering waterways. Eliminate sources of ignition from the spill area.

methods for cleaning up / taking up: Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces or absorbed onto inert material and handled as solid waste. Place discarded material in closed, labelled containers for disposal. Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. All disposal methods must be in compliance with all local, state, federal and international regulations.

7. Handling and storage

Adhere to work practice rules established by government regulations (e.g. OSHA).

Advice on protection against fire and explosion: None known; non-combustible and non-explosive as supplied.

Storage requirements: Use reasonable care to avoid skin and eye contact. Do not eat, drink or smoke in working area. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Keep containers closed when not in use. Protect containers against physical damage. Store in a cool, dry, well-ventilated area. If needed, stir before using. 'Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Any use of this product in a process should be evaluated to establish and maintain safe operating procedures.

OCTOCURE ZDB-50 CF

8. Engineering controls

Exposure limits: No information available. Consult local authorities for acceptable exposure limits.

Personal protection: None necessary under normal conditions (adequate ventilation). If necessary, use NIOSH-approved respiratory protection. Recommended Local exhaust. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. Ventilation must be adequate to maintain contaminant concentration below permissible exposure limits. Ventilation should be in accordance with OSHA regulations. Properly maintain and have readily available an eyewash/safety shower facility in the work area.

Hand protection: Use gloves impervious to this material. The breakthrough time of the selected glove(s) must be greater than the intended use period. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provide by the glove supplier. Before eating, drinking, smoking or using the toilet, wash face and hands thoroughly with soap and water.

Eye protection: Recommend the use of safety eyewear including splashguards or side shields. If splashing is likely, wear a face shield.

Skin and body: Gloves, Apron or protective coveralls may be needed to help prevent soiling of skin and clothing. Wear proper safety boots. Contaminated clothing and shoes should be cleaned before reuse or disposed of as necessary. It is recommended that a shower be taken after completion of workshift, especially if significant contact has occurred. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home.

9. Physical and chemical data

Test method:

Form: Liquid

Colour: White to off-white

Odour: Characteristic

Boiling point/range: > 93°C (200°F)

Melting point/range: No information available.

Flash point: > 93°C (200°F)

ASTM D-93

Flammability: Non-flammable in aqueous form.

Autoignition temperatures: No information available.

Explosion limits: No information available.

Vapour pressure: No information available.

Density: 1140 kg/m³ (typical)

Solubility in water: Insoluble.

Solubility in other solvents: No information available.

pH: 9.0 -10.0

Partition coefficient (Coefficient of Therm. Expansion) : No information available.

n-octanol/water: No information available.

10. Stability and reactivity data

Conditions to avoid: Stable. Avoid freezing, heat, sparks, open flames or sources of ignition. Hazardous polymerization will not occur.

Materials to avoid: None known.

Hazardous decomposition products: Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

OCTOCURE ZDB-50 CF

11. Toxicological properties

Acute toxicity data:

Oral LD50: No information available.
Dermal LD50: No information available.
Inhalation LC50: No information available.

Irritation

Skin: No information available.
Eye: Irritant
Sensitization: No information available.
Genotoxicity: No information available.

Other toxicological information: No information available.

12. Ecological properties

Ecotoxic effects:

Fish: No information available.
Daphnia: No information available.
Algae: 96h-EC50 (Cell count): No information available.

13. Disposal conditions

product: Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Empty containers retain product residue (liquid and/or vapor) and should be handled with caution. Must be disposed of in accordance with all local, state, federal and international regulations.

Contaminated packaging: No information available.

Waste code number: Please refer to your specific industry in the EUROPEAN WASTE CATALOGUE.

14. Transport information

Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Land transport ADR/RID and GGVS/GGVE

ADR class:	ADR/RID packing group:
RID class:	Substance identification no.:
Hazard identification:	UN no.: Not regulated
Proper shipping name:	

Marine transport IMDG / GGV See

IMDG-code class: 9	Packing group: III
EMS:	UN-no.: UN3082
Marine pollutant:	subsidiary risk:
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Zinc Dibutyldithiocarbamate)	

Air transport ICAO-TI und IATA-DGR

class: 9	UN-no.: UN3082
Packing group	
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Zinc Dibutyldithiocarbamate)	

OCTOCURE ZDB-50 CF

15. Regulations

This section is not meant to be all-inclusive; selected regulations are represented.

SARA 313 SECTION OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

This product contains the following substance(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Zinc Compound Category Code N982

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA, OR SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" which may be subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4:

Zinc Compound Category Code N982

STATE REGULATIONS:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product may contain trace levels of a component or components known to the State of California to cause cancer and/or reproductive toxicity. This warning is provided in the absence of definitive testing to prove that these risks do not exist.

CHEMICAL INVENTORY:

United States-All components of this product are on the Toxic Substance Control Act (TSCA) inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

Labelling in accordance with EC directives / German regulations

Labelling

EC-no.: 205-232-8

Symbols: N/A

R-phrases: N/A

S(afety) phrases: S61

Water hazardous class (Germany) (WGK): N/A

See section 16 for the full text of the Hazard symbols, R-phrases and S-phrases.

16. Other information:

Hazardous Material Identification System (HMIS) rating/codes:

Health – 1 Flammability – 1 Reactivity – 0 Protective Equipment - C (safety eyewear, gloves, apron)

HMIS uses a numbering scale ranging from 0 – 4 to indicate the degree of hazard.

Values: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme

An asterisk (*) indicates chronic health hazards are associated with the chemical.

The proper protective equipment is identified with a letter corresponding to equipment listed after in parentheses.

Legend:

P273 – Avoid release to the environment.

S61 – avoid release to the environment

Do not handle until the Manufacturer's Safety Precautions have been read and understood. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which Textile Rubber & Chemical Co. or Tiarco Chemical assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable international, federal, state and local laws and regulations.