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Material Safety Data Sheet

Sodium Dimethyldithiocarbamate MSDS

Section 1: Chemical Product and Company Identification

Product Name: Sodium dimethyl dithiocarbamate

Synonym:SDDC,SDD

Chemical Formula:C3H6NS2.Na

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Section 2: Composition and Information on Ingredients

Chemical Ingredients (% by wt.)

Sodium dimethyldithiocarbamate CAS #:128-04-1 40%

Water CAS #:7732-18-5 60%

(See Section 8 for exposure guidelines)

Section 3: Hazards Identification

3.1 Potential health effects

Eye: Contact with the eyes by product mist or solution will cause irritation and a burning sensation. Eye contact may result in severe corneal injury.

Skin contact: Contact with product mist or solution will cause skin irritation and may result in corrosion of the skin.

Skin absorption: Absorption is unlikely to occur.

Ingestion: Ingestion of product solution will cause irritation and corrosion of the gastrointestinal tract to

include nausea, vomiting and diarrhea.

Inhalation: Inhalation of product vapors, liquid or mist may produce burns of the respiratory tract.

Chronic effects/carcinogenicity: Not listed as a carcinogen by NTP, IARC or OSHA

Section 4: First Aid Measures

4.1 Eyes: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain immediate medical attention.

4.2 Skin: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.

4.3 Ingestion: Do not induce vomiting. If victim is conscious, immediately give large quantities of water. If vomiting does occur, continue to give fluids. Obtain immediate medical attention.

4.4 Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

Section 5: Fire and Explosion Data

5.1 Flammable properties

Flash point: 201°F (93.9°C) method used: Pmcc

5.2 Flammable limits lfl:nd ufl: nd

5.3 Extinguishing media: Water fog, foam, CO2 dry chemical or as appropriate for combustibles involved in fire.

5.4 Fire & explosive hazards: When heated or involved in a fire carbon disulfide and/or dimethylamine may evolve. These gases may form explosive mixtures with air. (See Section 5.2) Keep containers/storage vessels in fire area cooled with water spray.

5.5 Fire fighting equipment: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA/NIOSH (approved or equivalent) and full protective gear

Section 6: Accidental Release Measures

6.1 Small releases: Confine and absorb small releases on sand, earth or other inert absorbent. Neutralize with a very dilute acid such as acetic acid. Place contaminated product and soil in a suitable container for disposal.

6.2 Large releases: Confine area to qualified personnel. Wear proper protective equipment. Shut off release if safe to do so. Dike or divert spill area to prevent runoff into sewers, drains or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (above). Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

Section 7: Handling and Storage

7.1 Handling: Handle in enclosed containers to avoid breathing product. Avoid contact with skin and eyes. Use in a well ventilated area. Wash thoroughly after handling.

7.2 Storage: Store in well ventilated areas in enclosed containers. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [$<90^{\circ}\text{F}$ (32°C)]. Do not store in fiberglass containers or tanks. (See Section 10.4 for materials of construction)

Section 8: Exposure Controls/Personal Protection

8.1 Respiratory protection: Wear self-contained breathing apparatus, positive pressure, MSHA/NIOSH (approved or equivalent).

8.2 Skin protection: Gloves, boots, and chemical suit should be worn to prevent liquid contact. Wash contaminated clothing prior to reuse. Contaminated shoes cannot be cleaned and should be discarded

8.3 Eye protection: Chemical goggles and a full face shield.

8.4 Exposure guidelines: Osha acgih

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8.5 Engineering controls: Use adequate exhaust ventilation to prevent inhalation of product vapors. Maintain eyewash/safety shower in areas where chemical is handled.

Section 9: Physical and Chemical Properties

9.1 Appearance: Clear, green liquid

9.2 Odor: Slight amine odor

9.3 Boiling point: 212°F

9.4 Vapor pressure: $13\text{ mmHg @ }68^{\circ}\text{F}$ ($1.73\text{ Kpa @ }20^{\circ}\text{C}$)

9.5 Vapor density (air-1): 1.17 – 1.19

9.6 Solubility in water: Complete

9.7 Specific gravity: 1.18 (9.83 lbs/gal)

9.8 Freezing point: Not Determined

9.9 pH: 12.3

9.10 % Volatile: 60 (water)

9.11 Salt Out Temperature 18°F (-8°C)

9.12 Viscosity: 23 cps @ 72°F (2°C)

Solubility:

Soluble in methanol, diethyl ether. Partially soluble in cold water, hot water

Section 10: Stability and Reactivity Data

10.1 Stability: This is a stable material

10.2 Hazardous polymerization: Will not occur.

10.3 Hazardous decomposition products: Heating this product will evolve carbon disulfide and dimethylamine.

10.4 Incompatibility: Acids and oxidizing agents. Contact with strong acids or acidic materials may

evolve carbon disulfide. Dimet is not compatible with copper, or its alloys (i.e. bronze, brass, etc.). These materials of construction should not be used in handling systems or storage containers for this product. (SEE Section 7.2, Storage)

Section 11: Toxicological Information

11.1 Oral: oRAL rAT Id50: 1,000 mg/Kg

11.2 Dermal: Acute dermal limit test, rabbits (24 hrs) >2,000 mg/kg bw
Corrosiveness/irritation rabbits (4 Hrs) – slightly irritating

11.3 Inhalation: Acute inhalation limit test, rats (4 hrs) 2.05 mg/l

11.4 Chronic/carcinogenicity: No evidence available

11.5 Teratology: Data not available

11.6 Reproduction: Data not available

11.7 Mutagenicity: Data not available

11.8 Other: iPR mUS Id50: 573 mg/Kg

Section 12: Ecological Information

Flow-through acute 96 hour-LC50 for sheepshead minnow is 60.1 mg/l

Static acute 96 hour-LC50 for rainbow trout is 0.85 mg/l

Static acute 96 hour-LC50 for bluegill is 3.3 mg/l

Static acute 48 hour-EC50 for daphnia magna is 0.0715 mg/l

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

UN number:3082

Transport hazard class(es):9

Packaging group:III

Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

WGK (Water Danger/Protection)

CAS# 128-04-1: 2

CAS# 7732-18-5: No information available.

Canada

CAS# 128-04-1 is listed on Canada's DSL List.

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 128-04-1 is not listed on Canada's Ingredient Disclosure List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 128-04-1 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.

Section 16: Other Information

References:

Chemical Safety Data, Edition II.

Other Special Considerations: Not available.

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