



Material Safety Data Sheet

Dimet Solution

MSDS Number 121 (Revised: 8/08/08)

6 Pages

Section 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

- 1.1 Product Name** **Dimet Solution**
Chemical Family Carbamodithioic acid salt
Synonyms Sodium dimethyl dithiocarbamate; Carbamodithioic acid,
dimethyl-, sodium salt;
Formula $C_3H_6NS_2 \cdot Na$
- 1.2 Manufacturer** Tessenderlo Kerley Inc.
2255 N. 44th Street, suite 300
Phoenix, Arizona 85008-3279
Information (602) 889-8300
- 1.3 Emergency Contact** (800) 877-1737 (Tessenderlo Kerley)
(800) 424-9300 (CHEMTREC)

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

- 2.1 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

NFPA: **Health - 3** **Flammability - 1** **Reactivity - 1**

EMERGENCY OVERVIEW

Warning:

Product solution is very alkaline and corrosive to the skin.
Eye contact will cause severe eye irritation and possible corneal damage.
Ingestion will result in corrosion of tissues of the gastrointestinal tract.

Section	3:	HAZARDS IDENTIFICATION (Cont.)
----------------	-----------	---------------------------------------

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 FIGHTING MEASURES
----------------	-----------	-------------------------------

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.

Section	5:	FIRE FIGHTING MEASURES (Cont.)
----------------	-----------	---------------------------------------

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).

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)]. (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
	TWA	TLV
	STEL	STEL

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 mmHg @ 68°F (1.73 Kpa @ 20°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:	13
9.10 % VOLATILE:	60 (water)
9.11 Salt Out Temperature	18°F (-8°C)
9.12 Viscosity:	23 cps @ 72°F (2°C)

Section	10:	STABILITY and REACTIVITY
----------------	------------	---------------------------------

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 LD₅₀: 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: lpr Mus LD₅₀: 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
----------------	------------	--------------------------------

If released to the environment for other than its intended purpose, this product would meet the criteria of a D002, Corrosive waste. It is not listed as a hazardous waste.

Section	14:	TRANSPORT INFORMATION
----------------	------------	------------------------------

14.1 DOT Shipping Name: Caustic alkali liquids, n.o.s.
14.2 DOT Hazard Class: 8
14.3 UN/NA Number: 1719
14.4 Packing Group: II
14.5 DOT Placard: Corrosive
14.6 DOT Label(s): Corrosive
14.7 IMO Shipping Name: Caustic alkali liquids, n.o.s.
14.8 RQ (Reportable Quantity): Not applicable
14.9 RR STCC Number:

Section	15:	REGULATORY INFORMATION
----------------	------------	-------------------------------

15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.

15.2 SARA TITLE III:

a.	EHS (Extremely Hazardous Substance) List:	No
b.	Section 311/312, (Tier I,II) Categories:	
	Immediate (acute)	Yes
	Fire	Yes
	Sudden release	No
	Reactivity	Yes
	Delayed (chronic)	No

Section	15: REGULATORY INFORMATION (Cont.)
----------------	---

c.	Section 313 (Toxic Release Reporting-Form R):	Yes
	<u>Chemical Name - CAS Number</u>	<u>Concentration</u>
	Sodium dimethyldithiocarbamate, - CAS 128-04-1	40%
d.	TPQ (Threshold Planning Quantity):	No
15.3 CERCLA/SUPERFUND:	RQ (Reportable Quantity)	No
15.4 TSCA (Toxic Substance Control Act) Inventory List:		Yes
15.5 RCRA (Resource Conservation and Recovery Act) Status:		Yes D002 (See Section 13)
15.6 WHMIS (Canada) Hazard Classification:		E, D2B
15.7 DOT Hazardous Material: (See Section 14)		Yes
15.8 CAA Hazardous Air Pollutant (HAP)		No
15.9 FIFRA Registered pesticide		No
15.10 PROP 65		Yes Reproductive Toxicity, 3/99

Section	16: OTHER INFORMATION
----------------	------------------------------

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993, by Technical Services-Tessenderlo Kerley, Inc.

Revised Sections 5.1, Flash Point, Physical & Chemical Properties, 10.4 Incompatibility, 11, Toxicology, and 12, Ecology. 9/26/05

Revised Physical & Chemical Properties, Sections 9.5, 9.8, 9.10, 9.11 and 9.12, - 8/8/08.

<p>THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.</p>
