



# N521 Dispersion

EFFECTIVE DATE: 08/18/2006

CAS NO: 533-74-4

SUPERSEDES: 10/03

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** N-521 Dispersion  
**SYNONYMS:** Tetrahydro-3, 5-dimethyl-2H-1,3,5-thiadiazine-2-thione (DAZOMET) (20%)  
**CHEMICAL FAMILY:** Thione  
**MOLECULAR FORMULA:** C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>S<sub>2</sub>  
**MOLECULAR WEIGHT:**

VERICHEM, 3499 Grand Avenue, Pittsburgh, PA 15225 USA (412-331-7299, 8:30 am to 5:00 pm)

**EMERGENCY PHONE:** For any emergency involving spill, leak, fire, exposure, or accident call CHEMTREC: 1-800-424-9300. Outside the USA and Canada call: 703-527-3887.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

REGULATED COMPONENT	CAS NUMBER	PERCENT	WORKER EXPOSURE	REFERENCE
Tetrahydro-3,5-Dimethyl-2H-1,3,5-Thiadiazine-2-Thione	533-74-4	20%	None Established	

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

**APPEARANCE AND ODOR:** White viscous liquid with light sulfur odor.  
**EFFECTS OF OVEREXPOSURE:** No exposure limits have been established for this material.  
**PHYSICAL/CHEMICAL HAZARDS:** Not regulated for transportation.

## 4. FIRST AID MEASURES (IN CASE OF CONTACT)

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor.

5. **FIRE FIGHTING MEASURES**

**FIRE HAZARD:**

Not defined as flammable or combustible. However, the product may support combustion and decompose if in a fire and gives off toxic materials such as hydrogen sulfide, carbon disulfide, and methylamine. It is not sensitive to static discharge. In case of fire use water spray, alcohol foam, carbon dioxide, or dry chemicals. Exercise caution when fighting fires involving chemical substances. Respiratory protection is required. Burning will produce toxic fumes. Cool hot containers with cool water.

Vapors and products of combustion are irritating to the respiratory tract.

**EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTION**

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non essential personnel from the fire area. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use standard fire-fighting techniques to extinguish fires involving this material. Use water spray, dry chemicals or carbon dioxide. Keep fire-exposed containers cool with a water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination or fire hazard.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

6. **ACCIDENTAL RELEASE MEASURES**

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices.

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary depending upon customer applications, specific safe handling procedures should be developed by a person knowledgeable of the intended use conditions and equipment. During the development of safe handling procedures, consideration should be given to the need for cleaning of equipment and piping systems to render them non hazardous before maintenance and repair activities are performed.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Small spills can be handled routinely. Wear protective clothing to prevent skin and eye contact. Generously cover contaminated area with a slurry of common, powdered household laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2-3 minutes then flush with water. Repeat if necessary. Dike water for later disposal. Do not allow contaminated water to enter waterways. Sweep up as much of the slurry as possible and deposit in a suitable container.

7. **HANDLING AND STORAGE**

**STORAGE:** Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container. Containers should not be opened until ready for use. It is recommended that the product not be used after 12 months from the date of manufacture.

8. **PERSONAL PROTECTION**

**EYE PROTECTION REQUIREMENTS:** Chemical safety glasses or face shield.

**SKIN PROTECTION REQUIREMENTS:** Long sleeve shirts and long pants, socks, shoes and gloves.

**VENTILATION REQUIREMENTS:** Local and general exhaust ventilation to control levels of exposure.

**RESPIRATOR REQUIREMENTS:** None required

9. **PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:**..... White viscous liquid.

**BOILING POINT:** ..... @ 100<sup>0</sup> C

**MELTING POINT:**..... N/A

**VAPOR PRESSURE:** ..... Similar to Water

**SPECIFIC GRAVITY 25<sup>0</sup> C /25<sup>0</sup> C:** ..... 1.04

**VAPOR DENSITY:** ..... N/A

**PERCENT VOLATILE (BY WEIGHT):** ..... @ 80%

**pH:** ..... 8

**SATURATION IN AIR (PERCENT BY VOLUME):** ..... unknown

**EVAPORATION RATE:** ..... N/A

**SOLUBILITY IN WATER:** ..... complete

**10. STABILITY AND REACTIVITY**

Stable at ambient temperatures and atmospheric pressure. However, may slowly decompose at temperatures greater than 212°F (100°C) to produce hydrogen sulfide, carbon disulfide and methylamine.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS**

Acute Oral LD<sub>50</sub> (Rat) Although no testing was conducted on the formulated product, the product is estimated to be moderately toxic with and LD<sub>50</sub> of 500 mg/kg to 5000 mg/kg. The LD50 for the active ingredient is 363 mg/kg.

Acute Dermal LD<sub>50</sub> (Rabbits) Although no testing was conducted on the formulated product, the active products LD<sub>50</sub> is ≥2000 mg/kg.

Acute Inhalation LD50 (Rat) No testing was conducted on the formulated Dispersion. Testing conducted on the active ingredient showed the LC<sub>50</sub> is > 1.7 mg/L (4 hour) rat.

Primary Skin Irritation (Rabbit) The formulated dispersion was applied dermally to one intact site on each of three rabbits. The site was occluded for 4 hours and the wrap removed. Reactions were noted at 1 hour, 24, 48 and 72 hours. Minimal erythema was present at 1 hour and absent at 72 hours. There was no edema. Based on the results, the product is classified as a dermal irritant. Also a Primary Skin Irritation study on the active ingredient with rabbits showed the active to be classified as an irritant.

Primary Eye Irritant (Rabbit) Although no testing was conducted on the formulated product, the active product is expected to be classified as an eye irritant Testing on the active ingredient showed the material to be an eye irritant

**12. ECOLOGICAL INFORMATION**

**FISH AND WILDLIFE**

**AQUATIC:** This material is toxic to fish. Do not contaminate water sources by cleaning equipment or disposing of wastes.

**13. DISPOSAL CONSIDERATION**

Material that cannot be used as directed on the product label or chemically reprocessed and empty containers must be disposed of according to any applicable regulations. NOTE: State and local regulations may be more stringent than federal.

**14. TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	DOT Shipping Information	IMO Shipping Information	ICAO/IATA	TRANSPORT CANADA
Shipping Name	Not Hazardous	Not Hazardous	Not Hazardous	Not Hazardous
Hazard Class	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Packing Group	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Subsidiary Class	Not Regulated	Not Regulated	Not Regulated	Not Regulated
UN/ID Number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Transport Label Required	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Packing Instructions Passenger Cargo	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Max. Net Quantity Passenger Cargo	Not Regulated	Not Regulated	Not Regulated	Not Regulated
D.O.T. Hazardous Substances	Not Regulated	Not Regulated	Not Regulated	Not Regulated
IMDG Page	Not Regulated	Not Regulated	Not Regulated	Not Regulated

15. **REGULATORY INFORMATION**  
PRODUCT CLASSIFICATION UNDER SECTION 311 312 OF SARA

ACUTE: Yes  
CHRONIC: No  
FIRE: No  
REACTIVE: No  
PRESSURE: No

16. **OTHER INFORMATION**

**NFPA HAZARD RATING (NATIONAL FIRE PROTECTION ASSOCIATION)**

FIRE: 0  
HEALTH: 1  
REACTIVITY: 0

**HMIS (Hazardous Materials Identification System)**

FIRE: 0  
HEALTH: 1  
REACTIVITY: 0  
PROTECTION: B

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