

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200 Standard must be consulted for specific requirements.

# U.S. DEPARTMENT of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Code 104, I04B  
Tank Shield

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name

RUTLAND PRODUCTS

Address (Number, Street, City, State, and Zip Code)

7 CRAB TREE ROAD  
JACKSONVILLE, IL 62650

Emergency Telephone Number

CHEMTREC 800-424-9300

Telephone Number Information

217-245-7963

Date Prepared

Aug 1990

Date Revised

Sept. 04

Signature of Preparer (optional)

## Section II - Hazardous Ingredients/Identity Information

Chemical Identity	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Mineral Spirits	64742-47-8	100 ppm	100 ppm		
Copper Naphthenate	01338-02-9	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>		
Diethanolamine	00111-42-2	15mg/m <sup>3</sup>	15mg/m <sup>3</sup>		

HMIS Rating - Health: 2 Flammability: 2 Reactivity: 0

## Section III - Physical/Chemical Characteristics

Boiling Point	281 - 319°F	Specific Gravity (H <sub>2</sub> O = 1)	0.8
Vapor Pressure (mm Hg)	Approx. 5 @ 68°F	Melting Point	Not applicable
Vapor Density (Air = 1)	Approx. 4.9	Evaporation Rate (Butyl Acetate = 1)	Approx. 0.47
Solubility in Water	Negligible		
Appearance and Odor	Green liquid, consistency and odor of mineral spirits.		

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	104°F TOC	Flammable Limits	LEL 1%	UEL 6%
Extinguishing Media	Water spray, foam, carbon dioxide, or dry chemical.			
Special Fire Fighting Procedures	Burning may produce toxic combustion products. Wear self-contained breathing apparatus and full turn-out gear to fight fires.			
Unusual Fire and Explosion Hazards	Exposure to heat builds up pressure in closed containers. Cool with water stream.			

The information presented herein is based either on data or opinion. Such data is, to the best of our knowledge, true and accurate. Such opinion is believed to be expert, and therefore generally reliable, but in some instances there are conflicts in expert opinion and in these instances we have relied on the opinion which, in our best judgment, appeared the most reasonable. All information herein is presented without guarantee or warranty and Rutland Products disclaims any liability incurred from the use thereof.

## Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	
	Stable	Avoid exposure to high heat.	X

Incompatibility (Materials to Avoid)

Can react with strong oxidants. Hydrolyzed by strong acids or bases.

Hazardous Decomposition or Byproducts

Burning may produce carbon monoxide and/or copper fume.

Hazardous Polymerization	May Occur		Conditions to Avoid <b>Not applicable</b>
	Will Not Occur	X	

### Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Contact with eyes will cause irritation. Will cause skin irritation upon prolonged or repeated contact. May be absorbed through the skin. Inhalation may cause headache, incoordination, may produce narcosis in high concentration. Ingestion causes irritation of the mouth, gastrointestinal irritation, vomiting, and depression.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

See health hazards above.

Medical Conditions Generally Aggravated by Exposure

**Asthma and diseases of the respiratory system.**

Emergency and First Aid Procedures

Ingestion: do not induce vomiting. Aspiration may lead to pneumonitis. Call a physician.  
Inhalation: remove victim to fresh air. Administer artificial respiration if needed. Call a physician.  
Contact: wash skin with soap and water. Flush eyes with water. Call a physician.

### Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Remove sources of ignition and ventilate area.

Cover with inert absorbant material and remove to disposal container.

Waste Disposal Method

Dispose of in accord with federal, state and local laws.

Precautions to Be Taken in Handling and Storing

Keep away from heat and flame. Avoid breathing vapors.

Use adequate ventilation. Avoid contact with eyes, skin, clothing.

Other Precautions

### Section VIII - Control Measures

Respiratory Protection (Specify Type)

If exposure exceeds TLV's, use appropriate NIOSH approved respiratory masks.

Ventilation	Local Exhaust	Special
	Recommended	
	Mechanical (General)	Other

Protective Gloves

Impermeable, chemical-handling type.

Other Protective Clothing or Equipment

Impermeable apron, eye wash fountain, safety shower.

Work/Hygienic Practices

Wash hands after using.

Eye Protection

Splash goggles or full face shield.

NAME OF PRODUCT: Tank Shield

This product contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<u>CAS Number</u>	<u>Chemical Name</u>	<u>%,WT</u>
00111-42-2	Diethanolamine	0.25%
01338-02-9	Copper	0.46%