



Material Safety Data Sheet

VERDI-GONE™ with ReAct™

COPPER CONSERVATION FLUID

DATE EFFECTIVE: 07-30-2009

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: VERDI-GONE™
188 Anderson Ferry Road
Cincinnati, OH 45238 USA

Emergency: Telephone (24 hours): 1-513-633-0964

General Information: Telephone (USA Business Hours): 1-513-458-8258

Generic Name: Water Soluble Copper Conservation Fluid

2 EMERGENCY INFORMATION

Product is alkaline. Product is a primary eye irritant. Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

3 POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

Product

Inhalation: Extended exposure to mist may cause upper respiratory irritation.

Eye Contact: Product is a primary eye irritant.

Skin Contact: Product is not a primary skin irritant.

Ingestion: Not orally toxic.

Medical Conditions generally aggravated by exposure

May aggravate existing skin irritation where further defatting or skin penetration could occur.

Carcinogen Listings: NTP: No IARC: No OSHA: No

Signs and symptoms of exposure

Acute

Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

4 EMERGENCY AND FIRST AID PROCEDURES

Eyes

In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention.

Skin Contact

For skin contact flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention.

Product is not irritating to the skin when used as recommended and good personal hygiene is practiced.

Ingestion

Dilute by drinking water followed by fruit juice or vinegar. No need for first aid is anticipated if material is swallowed.

Inhalation

Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m³ for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m³ for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.

5 CONTROL MEASURES

Respiratory protection

Product is not volatile. No personal respiratory protective equipment normally required.

Caution

Not applicable.

Ventilation

Provide adequate ventilation.

Eye protection

Proper eye protection required when handling product.

Other protective clothing or equipment

Use effective protective clothing as appropriate.

Work / Hygiene Practices

Avoid contact with the skin and the eyes. Good personal hygiene should always be followed.

Protective Gloves

Impervious gloves, such as nitrile gloves, are recommended when handling product.

6 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

Component	CAS #	Percent
PROPRIETARY COMPOUND	TRADE SECRET	1 - 5

7 FIRE AND EXPLOSION HAZARD DATA

Hazardous Combustion Products

Smoke, fumes, oxides of nitrogen, and oxides of carbon

Flash Point: Not Applicable

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

HMIS RATINGS

Health 1

Flammability Classification 0

Reactivity 0

NFPA RATINGS

Health 1

Flammability Classification 0

Reactivity 0

8 ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

Reportable Quantity: None

9 WASTE DISPOSAL

For Used Product

Disposal procedures must comply with local, county, state and Federal regulations.

For Unused Product

Product is not a hazardous waste as defined under 40 CFR 261.

Empty Containers

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Rinse thoroughly and properly dispose of containers.

10 HANDLING AND STORAGE

Avoid all contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Use only as recommended by VERDI-GONE™. Do not store product in direct sunlight or elevated temperatures. If frozen, thaw completely at room temperature prior to use.

Other Precautions

None

11 PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 212 °F (100 °C)

Specific Gravity: 1

Freezing Point: 32 °F (0 °C)

Evaporation Rate: Like water

Solubility (H2O): 100 % Miscible

pH (Concentrate): 10.2

Recommended Starting Use undiluted

Dilution:

Appearance/Odor: Clear/Chemical

12 REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

Use as directed.

Materials to avoid

Avoid contact with strong acids or oxidizers to product.

Hazardous Polymerization

Will not occur.

Combustion Products

Smoke, fumes, oxides of nitrogen, and oxides of carbon

13 TRANSPORTATION INFORMATION

BY LAND

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

BY AIR OR VESSEL

Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)

Not a Hazardous Material

14 REGULATORY INFORMATION

EXPOSURE GUIDELINES

REGULATED MATERIAL	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
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CERCLA

No components of this product are present at levels which require reporting under 40 CFR 302.4.

EPCRA (SARA) TITLE III Extremely Hazardous Substances (302): None

Hazardous Substances (311/312)

Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

HAZARD CATEGORIES

Acute Health: Yes

Chronic Health: No

Fire: No

Sudden Release of Pressure: No

Reactive: No

RCRA

Product concentrate does not meet the definition of a hazardous waste as defined under 40 CFR 261. It is possible that in use, the product may be contaminated by metals or by chlorinated solvents and the final waste may meet the TCLP definition. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

TSCA

The ingredients of this product are on the TSCA inventory.

State Right to Know

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

Toxic Substances (313)

Component	CAS #	Max % Comments
None		%

GLOSSARY OF ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds

Disclaimer

NOTE: The opinions expressed herein are those of qualified experts within VERDI-GONE™ and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the condition and use of the product are not within the control of VERDI-GONE™, it is the user's obligation to determine the conditions of safe use of the product.