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MATERIAL SAFETY DATA SHEET

VALCOOL® VSF-4730

METALWORKING OIL

MSDS:
VSF4730

FS: 23-Apr-02: 9160: 1588

DATE EFFECTIVE: 4/24/02

PART# VPART

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<p>Manufacturer:</p> <p>Valenite Incorporated</p> <p>31700 Research Park Drive</p> <p>Madison Heights, MI 48071</p>	<p>Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)</p> <p>Information Telephone Number: 1-248-589-1000</p> <p>Generic Name: Metalworking Oil</p> <p>Product Name(s) & Code(s): VALCOOL® VSF-4730 UNDYED 430;</p>
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2. EMERGENCY INFORMATION

<p>Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage. Product is a primary eye irritant. Product is combustible. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.</p>
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3. POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

	Product	
Inhalation	Not Applicable.	
Eye Contact	Product is a primary eye irritant.	
Skin Contact	Product is not a primary skin irritant.	
Ingestion	Not orally toxic. However, pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and	

cause damage.

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted.

Mild skin irritation (redness and dryness of hands) may be experienced when the product has been contaminated by certain oils or by dissolved metals. When problems occur, use of oil-resistant barrier creams may be a temporary control measure. Contact VALCOOL® Technical Services at 1-248-589-1000 for specific recommendations.

Carcinogen Listings	NTP: No	IARC: No	OSHA: No
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Signs and symptoms of exposure: Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

Medical conditions generally aggravated by exposure: May aggravate existing skin irritation where further defatting or skin penetration could occur.

4. EMERGENCY AND FIRST AID PROCEDURES

Eyes: In case of eye contact with product, flush immediately with running water for 15 minutes, then promptly get medical attention to check for possible irritation.

Skin contact: In case of skin contact with product, wash with water as soon as possible.

Product is not irritating to the skin when used as recommended and good personal hygiene is practiced. Remove severely contaminated clothing, including shoes. Launder before reuse. If irritation persists, get medical attention.

Ingestion: If product is swallowed, **do not induce vomiting**. Do not give liquids. Immediately contact physician and obtain treatment.

Inhalation: Not expected to be a probable route of exposure to product. Inhalation of product 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.

5. CONTROL MEASURES

Respiratory Protection: Product is not volatile. No misting would be expected when handling product.

In applications where time-weighted exposures are 0.5 to 5 mg/m³, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH recommends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure

will exceed 5 mg/m³, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m³, respiratory protection should be based on the individual recommendation of a qualified health care provider.

Caution: The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.

Ventilation: For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

Eye Protection: Safety shield or goggles required when handling product.

Other protective clothing or equipment: Effective metalworking plant protective clothing as appropriate.

Work/Hygiene Practices: 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.

HAZARDOUS COMPONENTS	CAS #	RANGE %
Chlorinated Olefin: Not SARA Reportable	68410-99-1	60-100

7. FIRE AND EXPLOSION HAZARD DATA

Flash Point (COC): >450°F

Flammable Limits:

Upper Explosive Limit:

Lower Explosive Limit:

Extinguishing Media: Foam, carbon dioxide

Special Firefighting Procedure: None

Unusual Fire and Explosion Hazards: None

Hazardous Combustion Products: Smoke, fumes, HCl, oxides of carbon

NFPA/HMIS Codes:	Health 1	Flammability 1	Reactivity 0	Other
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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 will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

CAUTION: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE THIS CONTAINER TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION: IT MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean drums since residue is difficult to remove. Empty drums should be completely drained, promptly bunged, and promptly returned to a drum reconditioner. Empty disposable bulk containers should be drained, sealed, and properly discarded. Empty recyclable bulk containers should be drained, sealed, and recycled. Empty pails and jugs should be drained and properly discarded.

10. HANDLING AND STORAGE

Use only as recommended by Valenite. Avoid all contact of product with eyes or skin. Do not swallow.

Other Precautions - Product is combustible. Avoid open flames, sparks, and temperatures of >450°F or greater.

11. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	NA	Evaporation Rate	NA
Specific Gravity	1.302	Solubility in Water	Insoluble
Vapor Pressure (mm Hg)	ND	Appearance/Odor	Clear, light yellow/chemical
Melting Point	ND	pH	NA
Vapor Density	ND		

Volatile Organic Content (concentrate - by ASTM Method 2369 (Standard Test Method for Volatile Content of Coatings)): ND

12. REACTIVITY

Stability: Stable

Conditions to Avoid: NA

Materials to Avoid: Avoid contact with strong acids, oxidizers, or water-based additives to product.

Hazardous Polymerization: Will not occur.

Combustion Products: Smoke, fumes, HCl, and oxides of carbon

13. TRANSPORT INFORMATION

	Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101):	Hazard Class (49 CFR 172.101):
BY LAND	Not a hazardous material.	NA
BY AIR OR VESSEL (49 CFR 175-176)	NA	NA

U.S. Harmonized Tariff Code: 2710.00.30.80

14. REGULATORY INFORMATION

EXPOSURE GUIDELINES

REGULATED MATERIAL	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Metalworking Fluid Mist	0.5 mg/M ³				

CERCLA: Components present in this product at a level which could require reporting under 40 CFR 302.4: None

EPCRA (SARA) TITLE III Extremely Hazardous Substances (302): NA

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: Yes

Sudden Release of Pressure: No

Reactive: No

RCRA: Product 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): Components present in the product at levels which could require reporting under the statute:

CHEMICAL NAME	CAS #	MAX. %	COMMENTS

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
NA	Not Applicable
ND	Not Determined
NIOSH	National Institute of Occupational Health and Safety

NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
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

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