

VALENITE®

WHMIS

MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

VALCOOL® VNT® 100

CORROSION PREVENTIVE FLUID



CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Valenite Modco Ltd.

7675 Tranby Road

Windsor, Ontario N8S 2B7 Canada

Emergency Telephone Number: 1-800-424-9300
(CHEMTREC)

Information Telephone Number: 1-800-488-9073

Generic Name: Corrosion Preventive

Product Name(s) & Code(s): VALCOOL® VNT® 100
UNDYED 621;

EMERGENCY INFORMATION

Product is a yellow, oily liquid. It contains light petroleum distillates. Vapors concentrated in confined areas, such as truck trailer, may cause irritation to the eyes, nose, and throat and may cause dizziness. Prolonged inhalation may result in cent Product is combustible. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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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
Petroleum distillates	64742-47-8	60-100
Mineral oil (severely solvent refined)	64742-52-5	15-40

TOXICOLOGICAL PROPERTIES

POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE			
	Product		
Inhalation	Central Nervous System depressant		
Eye Contact	Product is not 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.		
<p>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.</p> <p>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 Canadian VALCOOL® Technical Services for specific recommendations (1-800-488-9073).</p>			
Carcinogen Listings	NTP: No	IARC: No	OSHA: No

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.

CONC. (%)	ACUTE ORAL TOXICITY (g/kg) (LD50- Rats)	ACUTE INHALATION TOXICITY (mg/l) (Rats)	ACUTE EYE IRRITATION (Rabbits)	PRIMARY SKIN IRRITATION (Rabbits)	CORROSIVITY (Rabbits)	ACUTE DERMAL TOXICITY (g/kg) (LD50- Rabbits)
100	Above 5	Above 20	Negative	Negative	Negative	Above2

EXPOSURE GUIDELINES

REGULATED MATERIAL	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Mineral oil (mist)		5 mg/M ³		5 mg/M ³	
Petroleum distillates		5 mg/M ³		5 mg/M ³	

SECOND PRIORITY SUBSTANCES LIST

Material	205 Liter Drums to Reach 1000 Kilogram Trigger
Not Applicable	

All ingredients of this product are on the Canadian NDSL or DSL.

HAZARD CATEGORIES:

Acute Health: Yes

Chronic Health: No

Fire: Yes

Sudden Release of Pressure: No

Reactive: No

WHMIS Classification: B3,

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: High vapor concentrations may be irritating to the respiratory system. High vapor concentrations may cause headaches, dizziness and other central nervous system effects. If product is swallowed, **do not induce vomiting**. Do not give liquids. Immediately contact physician and obtain treatment. Swallowing small quantities of product is not expected to cause injury or illness; but, as should be expected when drinking oily, soapy water, nausea, diarrhea or abdominal distress may be experienced.

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.

PREVENTIVE 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.

ACCIDENTAL RELEASE MEASURES

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

Reportable Quantity: None

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.

HANDLING AND STORAGE

Use only as recommended by Valenite. Avoid all contact of product with eyes or skin. Do not swallow. If frozen, thaw completely at room temperature prior to use.

Other Precautions - Product is combustible. Avoid open flames, sparks, and temperatures of 77°C or greater.

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.	Not Applicable
BY AIR OR VESSEL (49 CFR 175-176)	Not a hazardous material.	Not Applicable
U.S. Harmonized Tariff Code: 2710.00.30.80		

FIRE AND EXPLOSION HAZARD DATA

Flash Point (COC): 77°C				
Flammable Limits:				
Lower Explosive Limit: 1		Upper Explosive Limit: 7		
Extinguishing Media: Chemical foam, carbon dioxide, water fog, dry chemical				
Special Firefighting Procedure: Do not enter confined space without full bunker gear, including a positive pressure, NIOSH-approved, self-contained, breathing apparatus.				
Unusual Fire and Explosion Hazards: None				
Hazardous Combustion Products: Smoke, fumes, oxides of carbon				
NFPA/HMIS Codes:	Health 2	Flammability 2	Reactivity 0	Other -

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	77°C	Evaporation Rate	ND
Specific Gravity	0.8261 - 0.8361	Solubility in Water	Slight
Vapor Pressure (mm Hg)	85.00	Appearance/Odor	Clear, amber/chemical
Melting Point	Not Determined	pH	Not Applicable
Vapor Density	Heavier than air		
Physical State: Liquid			
Volatile Organic Content (concentrate - by ASTM Method 2369 (Standard Test Method for Volatile Content of Coatings)): 0.00%			

REACTIVITY

Stability: Stable

Conditions to Avoid: Not Applicable
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Materials to Avoid: Avoid contact with strong acids or oxidizers.
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Hazardous Polymerization: Will not occur.
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Combustion Products: Smoke, fumes, oxides of carbon
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PREPARATION INFORMATION

MSDS: VNT100	FS 9351: 1577	DATE CREATED: 1/27/2003
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Prepared by Milacron Cutting Process Technology Regulatory Affairs Group
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513-458-8182

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 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
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act

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STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Chemicals Control Act
VOC	Volatile Organic Compounds

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