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## MATERIAL SAFETY DATA SHEET

### VALCOOL® VALTAP®

#### LIQUID TAPPING COMPOUND

MSDS: VSFTAP

FS: 1-Sep-98: 7996: 1377

DATE EFFECTIVE: 03/28/99

MSDS PART NO.: 15-00-539

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<p><b>Manufacturer:</b> Valenite Inc. 31700 Research Park Drive Madison Heights, Michigan 48071</p> <p><b>Emergency Telephone Number:</b> 1-800-424-9300 (CHEMTREC)</p> <p><b>Information Telephone Number:</b> 1-800-488-9073</p>	<p><b>Generic Name:</b> Liquid Tapping Compound</p> <p><b>Product Name(s) &amp; Code(s):</b> VALCOOL® VALTAP® UNDYED 411 VALCOOL® VALTAP® BLUE 412</p>
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#### 2. EMERGENCY INFORMATION

Product is alkaline. Product is a primary eye irritant. Product may be a primary skin irritant. 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	Not Applicable
Eye Contact	Product is a primary eye irritant.
Skin Contact	Product may be a primary skin irritant.
Ingestion	Product is not orally toxic.

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. Contact VALCOOL® Technical Services at 1-800-488-9073 for specific recommendations to address skin irritation.

Repeated excessive exposures to high amounts of triethanolamine may cause liver and kidney effects.
<b>Carcinogen Listings — NTP: No; IARC: No; OSHA: No</b>
<b>Signs and Symptoms of Exposure —</b> Eye injury may result from contact with product. Skin irritation can result from improper use and handling.
<b>Medical Conditions Generally Aggravated by Exposure —</b> May aggravate existing skin irritation where further defatting or skin penetration could occur.

**4. EMERGENCY AND FIRST AID PROCEDURES**

<b>Eyes —</b> 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.
<b>Skin Contact —</b> 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.
<b>Ingestion —</b> If product is swallowed, <b>do not induce vomiting.</b> Dilute by drinking water or milk. Immediately contact physician and obtain treatment.
<b>Inhalation —</b> Not expected to be a probable route of exposure to product. OSHA has set a PEL of 15 mg/M <sup>3</sup> for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/M <sup>3</sup> for metalworking fluid mist.

**5. CONTROL MEASURES**

<b>Respiratory Protection —</b> Product is not volatile.
<b>Ventilation —</b> 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.
<b>Eye Protection —</b> Safety shield or goggles required when handling product.
<b>Other Protective Clothing or Equipment —</b> Effective metalworking plant protective clothing as appropriate.
<b>Work/Hygiene Practices —</b> Good personal hygiene always should be followed.
<b>Protective Gloves —</b> Impervious gloves are required 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	C.A.S. #	Max. %
Mineral oil (severely hydrotreated)	64742-52-5	10
Nonylphenoxy polyoxyethanol	9016-45-9	5
Triethanolamine	102-71-6	5
Triisopropanolamine	122-20-3	10

**7. FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (COC):</b> NA
<b>Flammable Limits —</b> Lower Explosive Limit: NA; Upper Explosive Limit: NA
<b>Extinguishing Media:</b> NA
<b>Special Firefighting Procedures:</b> None
<b>Unusual Fire and Explosion Hazards:</b> None

**Hazardous Combustion Products:** Smoke, fumes, HCl, oxides of carbon  
**NFPA/HMIS Codes — Health:** 1; **Flammability:** 0; **Reactivity:** 0; **Other:** NA

**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. If pre-treatment is needed, ultrafiltration, emulsion breaking or evaporation may be used. Contact VALCOOL® Technical Services at 1-800-488-9073 for assistance.

**For Unused Product:** Concentrate is not a hazardous waste as defined under 40 CFR 261.

"Empty" Containers will contain a residue that 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.

**10: HANDLING AND STORAGE**

Use only as recommended by Valenite Inc. Avoid all contact of concentrate with eyes or skin. Do not swallow. Protect from freezing.

**Other Precautions:** Contains amines. Do not add sodium nitrite or other nitrosating agents to this product. Suspected cancer-causing nitrosamines could be formed.

**11: PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point	212°F	Evaporation Rate	NA
Specific Gravity	1.023	Solubility in Water	100% Miscible
Vapor Pressure (mm Hg)	NA	Appearance/Odor	Clear, chemical
Melting Point	NA	pH (concentrate)	8.7
Vapor Density	NA	pH 100% (mix)	8.7
Volatile Organic Content (concentrate — by ASTM Method 2369 (Standard Test Method for Volatile Content of Coatings)): NA			

**12: REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** NA

**Materials to Avoid:** Avoid contact with strong acids or oxidizers to product.

**Hazardous Polymerization:** Will not occur

**Combustion Products:** Smoke, fumes, HCl, 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:** 3403.19.0000

**14 REGULATORY INFORMATION**

**EXPOSURE GUIDELINES:**

Regulated Material	NIOSH REL	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL
Metalworking fluid mist	0.5 mg/M <sup>3</sup>				
Mineral oil (mist)		5 mg/M <sup>3</sup>		5 mg/M <sup>3</sup>	
Triethanolamine				5 mg/M <sup>3</sup>	

**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: No; 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 mix 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 that 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	C.A.S. #	Max. %	Comments
NA			

**Glossary of Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute of Occupational Safety and Health
CAS	Chemical Abstracts Service	NTP	National Toxicology Program
CERCLA	Comprehensive Environmental Response Compensation and Liability Act	OSHA	Occupational Safety and Health Administration
CFR	Code of Federal Regulations	PEL	Permissible Exposure Limit
COC	Cleveland Open Cup	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EPCRA	Emergency Planning and Community Right-to-Know Act (a/k/a SARA)	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	STEL	Short-Term Exposure Limit
NA	Not Applicable	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 Inc. 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 Valenite Inc., it is the user's obligation to determine the conditions of safe use of the product.