

TA-60

RELEASE / DISCHARGE NOTIFICATION

LOS ALAMOS NATIONAL LABORATORY

Permit Number: .

Calendar Year

2004

NPDES or Operational Spill/Release <input type="checkbox"/>] - Indicate with "X" in appropriate box.	Release ID Number:
ER Spill/Release <input type="checkbox"/>		133
Other Spill/Release <input checked="" type="checkbox"/>		

Responsible Facility/User Group: FWO-WFM

Contact Person: Dennis McLain Pager #: 996-1489

Phone #: 665-5099 Cell Phone #: NA

Release/Discharge Location: The stormwater and metal cutting fluid mixture release occurred near the TA-60-5 Materials Recycling Facility (MRF). While loading a metals recycling bin, a Laboratory subcontractor accidentally released an estimated 300 gallons of the mixture to the ground. An estimated 100 to 150 gallons flowed to a storm drain that drains into upper Sandia Canyon.

TA: 60
Building: 5

If the release/discharge is associated with a NPDES Outfall, Potential Release Site (PRS) or Solid Waste Management Unit (SWMU), indicate the site/unit number and its relationship to the release/discharge:

NPDES Outfall: PRS: SWMU: PRS/SWMU Number: N/A

Indicate with "X" in appropriate box(es).

Relationship of the Discharge to a SWMU or PRS:

None.

Discharge Occurred: 4/14/2004 ~11:00 a.m.	Discharge Discovered: 4/14/2004 ~11:15 a.m.	Discharge Stopped: 4/14/2004 ~11:15 a.m.
Cleanup Started: 4/14/2004 ~3:00 p.m.	Cleanup Completed: [REDACTED] 4:00 p.m.	

Material(s) Released / Discharged:

Metal cutting fluid (VALCOOL VNT, see attached Material Safety Data Sheet) mixed with stormwater. The concentration of material released was estimated to be 300 gallons of stormwater with 0.35 gallons of VALCOOL VNT. The spilled cutting fluid and stormwater mixture was analyzed for Total Metals, Volatile Organics (VOA), and Semi-Volatile Organics (SVOA). The Laboratory submitted samples to a State certified analytical laboratory and is awaiting analytical results, verification, and validation.

Release/Discharge Mitigation Method:

Laboratory personnel installed a temporary earthen berm around the storm drain to prevent further transport of the spilled liquid mixture into surface water. Laboratory personnel absorbed all free liquids and removed the contaminated soil where liquids had pooled. All waste material from clean-up activities will be managed in accordance with applicable regulatory requirements.

Weather Conditions:

Sunny, breezy.

Duration of Release/Discharge, in HOURS: 0.25	Est. Volume Released/Discharged, in GAL. ~300	Est. Volume Recovered, in GAL. ~300
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Corrective Actions Taken (ie, type of BMPs, etc):

The Laboratory issued a standing order SO-SWO-010 TA-60 to the subcontractors. The standing order will require personnel to review conditions of recycling bins prior to loading or unloading activities. Additionally, the Laboratory is evaluating what resources would be required to install covers over metal recycling bins to prevent stormwater from collecting in containers.

Nearest Watercourse (Canyon Name) Sandia Canyon



Release Number 133...N/A...page 2 of 2.

If the release/discharge reached a watercourse, describe the estimated surface area affected, presence of release/discharge now in the watercourse, and the media the release/discharge was detected in:

Approximately 100 to 150 gallons of the estimated 300 gallons of stormwater and cutting fluid mixture flowed to a storm drain that discharged into upper Sandia Canyon. The material flowed past the E122.35 Gauging Station and an additional 20 to 25 yards beyond the gauging station.

Depth to Groundwater, in FT, if known: ~1280

Distance to Nearest Drinking Water Well, in FT, if known: ~12,000 Well ID# PM-5

24 HOUR RELEASE / DISCHARGE NOTIFICATIONS

	Contact Person	Phone	Fax	Date & Time (or Comment)	
EPA:	Waudelle Strickley	214 665-7491	214 665 2168	4/21/2004	7-Day FAX
NMED/SWQB:	Bret Lucas	827-2933	827-0160	4/15/2004	verbal @ 11:15 a.m.
NMED/GWQB:	Curt Frischkom	827-2918	827-2965	4/15/2004	verbal @ 11:25 a.m.
NMED/HRMB:	John Young	428-2538	428-2567	4/21/2004	7-Day FAX
NMED/DOE-OB:	Steve Yanicak	672-0448	672-0466	4/21/2004	7-Day FAX
RRES-WQH:	Mike Saladen	665-6085	665-9344	4/21/2004	7-Day FAX
DOE:	Gene Turner	667-5794	505-665-4872	4/21/2004	7-Day FAX
OTHER:	Frank Rodarte	428-2500	428-2567	4/15/2004	verbal @ 11:05 a.m.
OTHER:	Alva Sisneros	664-0666	665-6977	4/21/2004	7-Day FAX

Comments: On 4/14/2004 at ~11:05 a.m. Mark Haagenstad (RRES-WQH) verbally notified NMED-HWB's Frank Rodarte with the 24-Hour Release Notification. Additionally, the NRC, EPA (Everett Spencer), NMED-SWQB (Bret Lucas), and NMED-GWPPP (Curt Frischkom) were verbally notified on 4/15/2004 at 11:10 a.m., 11:35 a.m., 11:15 a.m., and 11:25 a.m. respectively.

Form Completed By: Mark Haagenstad

7 DAY RELEASE / DISCHARGE ACTIONS7 Day Notice 7 Day Notice Date: 4/21/2004 7 Day Notice By: Mark Haagenstad

Mark "X" when done.

Comments: The stormwater cutting fluid mixture was analyzed for Total Metals, VOAs, and SVOAs. Laboratory personnel are awaiting analytical results, verification and validation.

15 DAY RELEASE / DISCHARGE ACTIONS

15 day Follow-up Due: 4/29/2004 15-day Follow-Up By: Mark Haagenstad

Comments:

NMED 30 DAY APPROVAL / DISAPPROVAL

NMED 30 Day Response Date:

Comments:

Ralph Erickson, Director
Office of Los Alamos Site Operations
Department of Energy
Los Alamos, New Mexico 87544
(505) 667-5105

Beverly Ramsey, RRES Division Director
University of California
Los Alamos National Laboratory
P.O. Box 1663, MS K491
Los Alamos, New Mexico 87544
(505) 667-4218

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VALENITE®Reprints/Updates of this OSHA MSDS are available at
our website, WWW.MILPRO.COM.**MATERIAL SAFETY DATA SHEET****VALCOOL® VNT® 650****METALWORKING FLUID CONCENTRATE**MSDS:
VCO650

FS: 15-Mar-98: 9454: 1633

DATE EFFECTIVE: 3/28/99

PART # 15-00-542

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Valenite Incorporated 31700 Research Park Drive Madison Heights, MI 48071	Emergency Telephone Number: 1-800-424-9300 (CHEMTRÉC) Information Telephone Number: 1-800-488-9073 Generic Name: Water Soluble Metalworking Fluid Concentrate Product Name(s) & Code(s): VNT 650 UNDYED 436; VNT 650 BLUE 435;
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2. EMERGENCY INFORMATION

Product is alkaline. 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.

3. POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

	Product Concentrate	Product at Use Dilution
Inhalation	Not Applicable.	Extended Exposure to mists may cause upper respiratory irritation.
Eye Contact	Product is a primary eye irritant.	Will cause stinging sensation in the eye.
Skin Contact	Product is not a primary skin irritant.	Not irritating to the skin when used as directed and good personal hygiene is practiced.
Ingestion	Not orally toxic.	Swallowing small quantities may cause nausea or diarrhea.

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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 diluted product has been contaminated by certain oils, by dissolved metals, or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be a temporary control measure. Contact VALCOOL® Technical Services at 1-800-488-9073 for specific recommendations.

Carcinogen Listings

NTP: No

IARC: No

OSHA: No

Signs and symptoms of exposure: Eye injury may result from contact with concentrated product. Skin irritation can result from improper use and handling of concentrate or mix.

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 concentrated product or diluted mix, 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 concentrate, wash with water as soon as possible.

Diluted 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 concentrate or mix is swallowed, do not induce vomiting. Dilute by drinking water or milk. Immediately contact physician and obtain treatment. Swallowing small quantities of diluted 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 concentrate. Inhalation of diluted mix 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.

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 concentrated 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 are recommended when handling product concentrate.

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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 #	MAX %
Mineral oil (severely hydrotreated)	64742-52-5	80
Ethanolamine	141-43-5	10
Polyethoxylated propoxylated alcohol	69227-21-0	10

7. FIRE AND EXPLOSION HAZARD DATA

Flash Point (COC): 385°F

Flammable Limits:

Lower Explosive Limit: NA

Upper Explosive Limit: NA

Extinguishing Media: Chemical foam, carbon dioxide, water fog, dry chemical

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 -

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 Mix: Disposal procedures must comply with local, county, state and Federal regulations. If pre-treatment is needed, ultrafiltration or emulsion breaking may be used. Contact VALCOOL Technical Services at 1-800-488-9073 for assistance.

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

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"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 Incorporated. Avoid all contact of concentrate 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 385°F or greater. 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	NA	Evaporation Rate	Like water when diluted
Specific Gravity	1.024	Solubility in Water	100% Miscible
Vapor Pressure (mm Hg)	NA	Appearance/Odor	Clear, dark amber/chemical
Melting Point	NA	pH (concentrate)	NA
Vapor Density	NA	pH 5.0% (mix)	8.9

Volatile Organic Content (concentrate - by ASTM Method 2369 (Standard Test Method for Volatile Content of Coatings)): 10.24%

12. REACTIVITY

Stability: Stable

Conditions to Avoid: NA

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

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: 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 ³				
Mineral oil (mist)		5 mg/M ³		5 mg/M ³	
Ethanolamine		3 ppm		3 ppm	6 ppm
<p>CERCLA: Components present in this product at a level which could require reporting under 40 CFR 302.4 None</p> <p>EPCRA (SARA) TITLE III Extremely Hazardous Substances (302): NA</p> <p>Hazardous Substances (311, 312): Product concentrate 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.</p> <p>HAZARD CATEGORIES:</p> <p>Acute Health: Yes</p> <p>Chronic Health: No</p> <p>Fire: Yes</p> <p>Sudden Release of Pressure: No</p> <p>Reactive: No</p>					

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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 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 condition and 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.

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Los Alamos, New Mexico 87544

*Risk Reduction & Environmental Stewardship Division
WATER QUALITY & HYDROLOGY GROUP, RRES-WQH
FAX TRANSMITTAL SHEET*

FAX #: (505) 665-9344**VERIFICATION #: (505) 665-0453**

DATE:	<u>4/21/2004</u>	LOG NO:	<u>WQH-FAX-03-</u>
FROM:	<u>Mark Haagenstad</u>	PHONE#:	<u>(505) 665-2014</u>
TO:	<u>Waudelle Strickley</u>	ORG:	<u>EPA</u>
FAX #:	<u>(214) 665-2168</u>	PHONE #:	<u>(214) 665-7491</u>
TO:	<u>Bret Lucas</u>	ORG:	<u>NMED-SWQB</u>
FAX #:	<u>(505) 827-0160</u>	PHONE #:	<u>(505) 827-2933</u>
TO:	<u>Curt Frischkorn</u>	ORG:	<u>NMED-GWQB</u>
FAX #:	<u>(505) 827-2965</u>	PHONE #:	<u>(505) 827-2918</u>
TO:	<u>John Young</u>	ORG:	<u>NMED-HWB</u>
FAX #:	<u>(505) 428-2567</u>	PHONE #:	<u>(505) 428-2538</u>
TO:	<u>Steve Yanicak</u>	ORG:	<u>NMED/DOE-OB</u>
FAX #:	<u>(505) 672-0466</u>	PHONE #:	<u>(505) 672-0448</u>
TO:	<u>Gene Turner</u>	ORG:	<u>DOE</u>
FAX #:	<u>(505) 665-4872</u>	PHONE #:	<u>(505) 667-5794</u>
TO:	<u>Frank Rodarte</u>	ORG:	<u>NMED-HWB</u>
FAX #:	<u>(505) 428-2567</u>	PHONE #:	<u>(505) 428-2500</u>
TO:	<u>Robert Lechel</u>	ORG:	<u>FWO-WFM</u>

FAX #:	<u>(505) 665-3961</u>	PHONE #:	<u>(505) 665-2272</u>
TO:	<u>Alice Barr</u>	ORG:	<u>RRES-SWRC</u>
FAX #:	<u>(505) 667-5224</u>	PHONE #:	<u>(505) 667-0820</u>
TO:	<u>Alva Sisneros</u>	ORG:	<u>PS-7</u>
FAX #:	<u>(505) 665-6977</u>	PHONE #:	<u>(505) 664-0666</u>

MESSAGE: Attached you will find the 7-Day Release / Discharge Notification for a storm water and drilling cutting fluid (mineral oil) mixture release near TA-60-5 (Materials Recycling Facility) at Los Alamos National Laboratory. Please contact Mark Haagenstad (665-2014 or 699-1733) if you have any questions on the matter. Thanks...

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