

MATERIAL SAFETY DATA SHEET



D4D FLUID

Part Number: 10172001, Rev B

SECTION 1 Product and Company Information

Product identifier Rustlick D4D Fluid: Part Number: 10172001, Rev B
Product use Synthetic grinding fluid
Manufacturer ITW ROCOL North America
3624 West Lake Avenue
Glenview, Illinois 60026
1-800-452-5823
Emergency info CHEMTREC, 1-800-424-9300

SECTION 2 Hazards Identification

Emergency overview No hazards resulting from the material supplied.

HMIS rating

Health	1
Flammability	1
Reactivity	0
Personal protection	B

Routes of entry Skin, eyes, respiratory tract, digestive system.

Potential short-term health effects

Skin	Prolonged or repeated exposure is not likely to cause significant skin irritation.
Eyes	May cause mild irritation.
Inhalation	Negligible unless heated to produce vapors.
Ingestion	Harmful if swallowed, may cause nausea and vomiting. Ingesting large quantities may cause injury or death.

Potential long-term health effects Not known

SECTION 3 Chemical Composition/Hazardous Ingredients

Ingredients	CAS #	OSHA/PEL (TWA)	ACGIH/TLV (TWA)
Glycerine	56-81-5	15 mg/m ³	10 mg/m ³
7a-ethylidihydro-1H,3H,5H- oxazol[3,4-c]oxazole	7747-35-5	None Established	None Established
Triethanolamine	102-71-6	5 mg/m ³	5 mg/m ³

Exact chemical identities and percentages are withheld as trade secrets provided under 29CFR.1910.1200.

SECTION 4**First Aid Measures**

Skin contact	Immediately wash the exposed area thoroughly with soap and water. Remove contaminated clothing. Wash before reuse. If irritation persists, consult physician.
Eye contact	In case of contact, immediately flush with water for at least 15 minutes. If irritation persists, consult physician.
Inhalation	If inhaled, move to fresh air. If irritation persists, consult physician.
Ingestion	If swallowed, DO NOT induce vomiting. Contact a physician immediately. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5**Fire Fighting Measures**

Flammable limits	Non-flammable
Products of combustion	Oxides of carbon (CO, CO ₂).
Flash point (method)	N/AP water based product
Auto-ignition temperature	Not available
Explosion data	
Sensitivity to mechanical impact	None known
Sensitivity to static discharge	None known
Fire-fighting media and instructions	In case of fire use carbon dioxide, dry chemicals, or foam.
Special fire-fighting procedures/equipment	Self contained breathing apparatus and protective clothing is recommended to protect fire fighters from any hazardous combustion or decomposition products. Pressure build-up in the closed container may occur due to heat exposure.

SECTION 6**Accidental Release Measures**

Personal precautions	Use appropriate safety equipment. Avoid inhaling vapors or mist. Avoid contact with eyes, skin and clothing.
Environmental precautions	Do not allow spilled product to enter drains, sewers, or waterways.
Cleanup	Ventilate area. Eliminate all sources of heat and flame. Stop leak if safe to do so. Contain spill. Use absorbent material, such as vermiculite or sand. Place in suitable container for later disposal.
Prohibited materials	None

SECTION 7**Handling and Storage**

Handling	Use appropriate safety equipment. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep away from extreme heat. Keep container closed when not in use.
Storage	Store away from extreme heat, flame, or ignition sources. Pressure build up may occur due to heat exposure or temperature change. Release pressure by slowly opening container.

SECTION 8**Exposure Controls and Personal Protection**

Hygiene measures	Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke while handling this product.
Control measures	General ventilation should be sufficient. Providing approved respirators for emergencies, or when mist/vapor concentrations are unknown may be warranted. Availability of eye wash station, washing facilities and safety shower is recommended.
Personal protection	
Skin	Wear suitable gloves; chemical resistant gloves, such as polyvinyl chloride-coated, are recommended. Wear protective clothing suitable to prevent contact. Remove contaminated clothing and launder before wearing.
Eyes	Safety glasses are recommended.
Respiratory	Not normally required. Control vapor or mist concentrations below exposure limits through use of general or local exhaust ventilation.



SECTION 9**Physical and Chemical Properties**

Physical state	Liquid
Color	Clear yellow to dark orange
Odor	Faint
pH at 10%	7.0 - 8.0
Boiling point	212°F (100°C)
Melting/freezing point	32°F (0°C)
Vapor pressure	Not available
Solubility in water	Soluble
Specific gravity	1.11
Vapor density	> 1
Volatile organic compounds	Nil

SECTION 10**Reactivity and Stability**

Stability and reactivity	Stable. Hazardous polymerization will not occur.
Conditions to avoid	None
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or burning will produce carbon monoxide and carbon dioxide (CO, CO ₂).

SECTION 11	Toxicological Information
LD50	Not determined for the product.
LC50	Not determined for the product.
Carcinogenic	None of the ingredients in this product are listed by IARC, ACGIH, NTP or OSHA as carcinogenic.
Teratogenicity	No data
Mutagenicity	No data
Sensitization	No data

SECTION 12	Ecological Information
-------------------	-------------------------------

Environmental toxicity	None reported
Aquatic toxicity	No data

SECTION 13	Disposal Considerations
-------------------	--------------------------------

Handling for disposal	Absorb on suitable material and follow procedures listed below.
Methods of disposal	Dispose of in a manner that is recommended by local, state, provincial and federal laws and regulations.

SECTION 14	Transportation Information
-------------------	-----------------------------------

Not classified as hazardous for transport according to IATA, 49CFR, and IMDG regulations.

SECTION 15	Regulatory Information
-------------------	-------------------------------

WHMIS information	No data
CEPA information	No data
TSCA information	All ingredients are included in the TSCA inventory.
SARA Title III	Contains no ingredients which exceed De Minimus reporting requirements.
California Prop 65	The product contains no chemicals known to the state of California to cause cancer or reproductive toxicity.

SECTION 16	Other Information
-------------------	--------------------------

Prepared by	ITW ROCOL North America, Steve Badger, 800-452-5823.		
Date of issue	March 8, 2010	Date of previous issue	September 24, 2008

References

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices, 2004.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2004.
3. US EPA Title III Lists of Lists - October 2001 version.
4. Material Safety Data Sheets from manufacturer.