

Radiation Products Design Inc

SAFETY DATA SHEET

RPD INFORMATION

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RPD PRODUCT INFORMATION

RPD is an authorized distributor

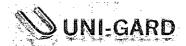
Item Number

Description Block Casting Station, 120 VAC 878-350

Block Casting Station, 220 VAC 878-351

MSDS Revision Date 00/2011

Material Safety Data Sheet



Uni-Proof Non-Toxic A/F -50

Revised 08/09

I. General Information

Chemical Name & Synonyms:

Antifreeze/Propylene Glycol, Ethyl Alcohol based

Chemical Family:

Polyalcohol

Proper DOT Shipping Name:

Antifreeze Non-Toxic

Trade Name & Synonyms:

Non-Toxic A/F -50

Formula:

DOT Hazard Classification:

Non-hazardous

Manufacturer: South/Win Ltd.

272 Nashua Street Leominster, MA 01453

(978) 537-5518

CHEMTREC: (800) 424-9300

II. Ingredients

Principal Hazardous Components		Percent	Threshold Limit Value/Units	
Ethyl Alcohol Propylene Glycol	CAS# 64-17-5 CAS# 57-55-6	18-25% 3-5%	1000 ppm	
Ethyl Acetate Water	CAS# 141-78-6	<1% 70-80%	400 ppm	
DiPotassium Phosphate CAS# 7758-11-4		<1%	None established	

III. Physical Data

Boiling Point (°F):

Vapor Pressure (mm Hg.):

Vapor Density (Air=1):

Solubility in Water:

Appearance & Odor:

Specific Gravity ($H_2O = 1$):

Percent Volatile By Volume (%):

Evaporation Rate:

pH:

185

14 @ 68 Degrees F

3

Infinite

Clear orange or blue liquid with cinnamon odor.

.980-.995

75-85

0.1

8.0-9.0

IV. Fire & Explosion Data

Flash Point (Test Method):

Flammable Limits:

Auto Ignition Temperature:

LEL:

UEL:

Extinguishing Media:

Special Fire Fighting Procedures

Unusual Fire & Explosion Hazards:

110 Degrees F TCC

n/a

3.3

19.0

Use water fog, alcohol foam, dry chemical or

CO2.

Flammable. Clear fire area of unprotected

personnel. Do not enter confined fire space without coats, gloves, and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire to

exposed containers with water.

Containers exposed to intense heat from fires

should be cooled with water to prevent vapor pressure build-up, which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large

quantities of water as needed to prevent weakening of container structure.

V. Health Hazard Data

OSHA Permissible Exposure Limits:

ACGIH Threshold Limit Value:

Carcinogen – NTP Program: Carcinogen – IARC Program:

Symptoms of Exposure:

None established.

1000 ppm

n/a n/a

Early to moderate Central Nervous System

depression may be evidenced by giddiness, headache, dizziness, and nausea in extreme cases, unconsciousness and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color) and sometimes pain in the upper abdomen on the

right side.

Medical Conditions Aggravated By Exposure: Pre-existing eye, skin and respiratory disorders

may be aggravated by exposure to this product.

Impaired liver function from pre-existing

disorders may also be aggravated.

Primary Route(s) of Entry:

Eye, skin, inhalation, ingestion.

Emergency First Aid:

Eye: Flush eyes immediately with plenty of water for at least 15 minutes while holding evelids open. Get medical attention.

Skin: Flush skin with water. If irritation occurs,

get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get

medical attention.

VI. Reactivity Data

Stability:

Stable.

Conditions to Avoid:

Avoid heat, sparks, flame.

Incompatibility:

Materials to Avoid:

Strong oxidizing agents.

Hazardous Polymerization:

Conditions to avoid:

Will not occur.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

VII. Fire & Explosion Data

Spill Response:

Waste Disposal Method:

Warning: Combustible. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Large spills: Evacuate the hazard area of unprotected personnel. Wear appropriate clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress;

contain run-off. Remove with vacuum trucks. (Under EPA-RCRA 940 CFR 261.21). IF this product becomes a waste material, it would be

ignitable hazardous waste, Hazardous Waste No. D001. Refer to latest EPA or state regulation

regarding proper disposal.

VIII. Special Protection Information

Eye Protection: Skin Protection:

Wear chemical goggles to prevent eye contact.

Wear chemically resistant gloves and clothing to

prevent overexposure.

Ventilation Recommended:

Use adequate ventilation.

Ω t	her	Protec	tion:
		FILHEL	

Other Precautions:

Eye wash fountain and safety shower should be available.

IX. Special Precautions

Hygienic Practices In Handling & Storage:

Keep liquid and vapor away from heat, sparks, and flame. Surfaces that are sufficiently hot may ignite liquid product in the absence of sparks or flame. Extinguish pilot lights and cigarettes. Turn off other sources of ignition prior to use and until all vapors are gone. Vapors may accumulate and travel to ignition sources distant from the handling site.

Precautions for Repair & Maintenance of Contaminated Equipment:

Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld, or perform similar operations on or near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

Key: N/A Not Applicable ND Not Determined

The information contained herein is based on the data available to us and is believed to be correct. However, North/Win and/or the preparer make no warranty, expressed or implied, regarding the accuracy o this information or the results to be obtained from the use thereof. North/Win assumes no responsibility for injury from the use of the product described herein.

MATERIAL SAFETY DATA SHEET



EDM-30

SECTION 1 Product and Company Information

Product identifier Rustlick EDM-30
Product use Dielectric oil

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 B
protection

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

Potential short-term

health effects

Skin None

Eyes May cause mild irritation.

Inhalation May cause irritation to nose and throat. Inhalation of vapors or mist may cause

headache, dizziness, and drowsiness.

Ingestion Harmful if swallowed. 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)
Aliphatic hydrocarbon	64742-47-8	5 mg/m ³	5 mg/m ³
Technical white oil	8042-47-5	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 Not available

Products of combustion Oxides of carbon (CO, CO₂).

Flash point (method) > 200°F (93°C) (PMCC)

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 glove. 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, colorless

Odor Mild Viscosity at 40°C 3.5 cSt

pH Not applicable

Boiling point 300°F (149°C)

Melting/freezing pointNot availableVapor pressureNot available

Solubility in water Insoluble

Specific gravity 0.80
Vapor density > 1
Evaporation rate < 1
Volatile organic Nil

compounds

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 Therma

products

Thermal decomposition or burning will produce carbon monoxide and carbon dioxide (CO, CO₂).

SECTION 11 Toxicological Information

LC50 Not determined for the product.

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

Medical conditions

aggravated by exposure

Skin disorders.

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.

SECTION 16 Other Information

Prepared by *ITW* ROCOL North America, Leroy Hitchcock, 1-800-452-5823

Date of issue December 15, 2008 Date of previous issue November 3, 2006

References

- 1. ACGIH, <u>Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices</u>, 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.