

GRACE

TO: P. R. Reyer/Weedsport
T. R. Shaffer/New Castle

DATE: February 10, 1987

FROM: K. M. Doyle

SUBJECT: Oil-Treated Z.M.I.

CC: D. Dzuro
R. H. Locke
R. R. Lyons
D. C. Smith
W. R. Wright/J. W. Wolter

Effective this date, you are authorized to produce Zonolite Masonry Insulation using L#2 vermiculite and 1.5 lbs. oil/bag. This oil, coded RODL, is supplied by WITCO's Sonneborn Division, and goes by the trade name of RUDOL USP Light Mineral Oil (see MSDS attached).

Please note that all Sampling, Testing, Manufacturing and Packaging instructions remain the same with the exception of bag type. The only bag authorized is: paper #99-04-07-1-02.

This memo must be retained as your "authorization to manufacture" until a formal document can be issued.


K. M. Doyle

KMD:tk

Attachment

10002658

WILCO MATERIAL SAFETY DATA SHEET

PRODUCT Rudol

RODL

SECTION V - SPECIAL PROTECTION INFORMATION

36	NA	38	None
37	RESPIRATORY PROTECTION (SPECIFY TYPE)	39	Chemical splash goggles
37	NA	40	None

SECTION VI - HANDLING OF SPILLS OR LEAKS

PROCEDURES FOR CLEAN-UP

Shut off leak, dike up spills, absorb with inert material such as sand, earth or vermiculite. Sweep up and dispose of in accordance with Federal, State and local regulations.

41

WASTE DISPOSAL

Use methods consistent with Federal, State and local regulations.

42

SECTION VII - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid heat (150°F max.), flame and oxidizing agents.

43

SECTION VIII - TRANSPORTATION DATA

44	UNREGULATED BY D.O.T. ☒	47	U.S. D.O.T. PROPER SHIPPING NAME	NA	
45	REGULATED BY D.O.T. ☐	48	U.S. D.O.T. HAZARD CLASS	NA	
46	TRANSPORTATION EMERGENCY INFORMATION	49	I.D. NUMBER	NA	
		50	NA	51	NA
		FREIGHT CLASSIFICATION			
		SPECIAL TRANSPORTATION NOTES			
CHEM TREC, 1-(800) 424-9300		52	Petroleum Oil NO1BN		
		53	NA		

SECTION IX - COMMENTS

Rudol is a fully refined white mineral oil meeting the requirements of the National Formulary XVI as well as the requirements of the Food and Drug Administration as per CFR 172.878.

CAS #8042-47-5

SIGNATURE <u>Paul G. Tietze</u>	TITLE <u>Manager, Technical Service</u>	Tel: (212) 605-3908
REVISION DATE <u>Sept. 1984</u>	SENT TO <u>Mr. Phil Carkner</u>	DATE <u>10/31/86</u>
SUPERSEDES _____	<u>W. R. Grace, Inc.</u>	
	<u>Cambridge, Mass.</u>	10002659

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense. Contact us for more information.

MATERIAL SAFETY DATA SHEET

PRODUCT Rudol White Mineral Oil

HAZARD RATING	
4 - EXTREME	
3 - HIGH	
2 - MODERATE	
1 - SLIGHT	
0 - INSIGNIFICANT	

SECTION I

WITCO MANUFACTURING DIVISION OR SUBSIDIARY		EMERGENCY TELEPHONE (504) 366-7281 MANUFACTURER 1-412-756-2210 CHEMTREC 1-800-424-9300
1 Sonneborn Division		
ADDRESS (NUMBER, STREET, CITY, STATE, ZIP CODE)		
2 P.O. Box 336, Petrolia, PA. 16050	P.O. Box 308	
	Gretna, LA. 70054	
CHEMICAL NAME OR FAMILY		FORMULA
3 White Mineral Oil, NF		4 A mix of liquid hydrocarbons refined from petroleum.

SECTION II - CHEMICAL AND PHYSICAL PROPERTIES

CHEMICAL	PHYSICAL
HAZARDOUS DECOMPOSITION PRODUCTS	FORM
5 Upon combustion, CO₂ and CO are generated.	6 Viscous liquid
INCOMPATIBILITY (KEEP AWAY FROM)	9 None
6 Keep away from flame, heat (150°F max.), and strong oxidizing agents.	APPEARANCE
LIST ALL TOXIC AND HAZARDOUS INGREDIENTS	10 Colorless liquid
7 None	COLOR
	11 None
	SPECIFIC GRAVITY
	12 (WATER = 1) <1.0 @ 15°C
	BOILING PT.
	13 IBP > 230 °C > 450 °F
	MELTING PT.
	14 NA °C NA °F
	SOLUBILITY IN WATER
	15 AT 25 °C Negligible
	% VOLATILE (BY WT %)
	16 Nil @ 25°C
	EVAP. RATE
	17 Nil @ 25°C
	VAPOR PRESSURE
	18 (mm Hg at 20°C) < .5mm
	RELATIVE DENSITY (AIR = 1)
	19 NA
	pH AS IS
	20 NA

SECTION III - FIRE AND EXPLOSION DATA

SPECIAL FIRE FIGHTING PROCEDURES	FLASH POINT (METHOD USED)
24 Self-contained breathing apparatus is recommended for firefighters. Water-spray must be used with caution to prevent spread of flames.	ASTM D-92
UNUSUAL FIRE AND EXPLOSION HAZARDS	26 > 176 °C > 350 °F
25 None	FLAMMABLE LIMITS %
	27 NOA
	EXTINGUISHING AGENTS
	28 NOA
	29 NOA
	30 NOA
	31 NOA
	32 NOA
	33 NOA
	34 NOA
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	99 NOA
	100 NOA

SECTION IV - HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS (AHL)	29 5 mg/m³ for mineral oil mist, Re: OSHA
EFFECTS OF OVEREXPOSURE	
30 NOA	31 NOA
TOXICOLOGICAL PROPERTIES	
32 NOA	33 NOA
EMERGENCY FIRST AID PROCEDURES	
34 EYES - Flush with water. If irritation exists consult a physician.	35 SKIN CONTACT - NA
36 SKIN CONTACT - NA	
37 INHALATION - NA	38 SWALLOWED - Call a physician.
39 SWALLOWED - Call a physician.	

STRONG ACID ☐
STRONG BASE ☐
STABLE ☒
UNSTABLE ☐

VISCOSITY
CST
AT 100°F

10002660