ANTI CORROSIVE SEALING AGENT FOR LINING STEEL PIPES

HERME SEAL 66 is a liquid gasket with specially purified polymer resin as basic material that allows the production of strong sealing effectiveness.

HERME SEAL 66 meets the requirements of SS245 : 1981 and JIS K 6742 (1971). Therefore, it is found to be safely used as sealing materials for pipes conveying portable water.

PROPERTIES

COLOUR	: **GREY**
TYPE OF FILM	: **DRYING HARDENING**
VISCOSITY	: **4300 CPS AT 25°C**
SPECIFIC GRAVITY	: **1.2**
HEATED RESIDUE	: **63 ± 3%**
DILUENT	: **SPECIFIED SOLVENT**
SHELF LIFE	: **ONE YEAR**

APPLICATION METHOD AND RECOMMENDATION FOR HERME SEAL 66

- Removal of any water, oil, dust from the applied surface.
- Stir well before used.
- Applied the suitable amount of solvent with a brush.
- Allowed the solvent to evaporate before tighten the joint.
- After tightening, 12 hours is required to give better adhesion properties.
- Sufficient amount is required as excessive application will caused blockage.
- After used, ensure the cap is tighten and store under a cool and dry place.

DUCTILE PTE LTD
64 Defu Lane 6 Singapore 539502 367
Tel : (65) 284 5511 Fax : (65) 285 1930
E-mail: ductile @ mbox2.singnet.com.sg
http://www.ductile.com.sg

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U. S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List) HERME SEAL 66	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name	Emergency Telephone Number
NIHON HERMETICS CO.,LTD.	
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
	03-3492-3677
№31-8, NISHI-GOTANDA 2-CHOME, SHINAGAWA-KU, TOKYO, 141, JAPAN	Date Prepared
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
		T W A		
ETHYL ACETATE (CAS.№ 141-78-6)		400 ppm		30 - 40

Section III - Physical/Chemical Characteristics

Boiling Point	171 ℉	Specific Gravity (H_2O = 1)	1.2
Vapor Pressure (mm Hg)	73 (68 ℉)	Melting Point	-119 ℉
Vapor Density (AIR = 1)	3.04	Evaporation Rate (Butyl Acetate = 1)	5.25

Solubility in Water: Insoluble

Appearance and Odor: Gray paste , aromatic odor

Section IV - Fire and Explosion Hazard Data

Flash point (Method Used)	Flammable limits	LEL	UEL
19℉ (by Seta closed-cup)		2.2%	11%

Extinguishing Media: Dry chemical , CO_2

Special Fire Fighting Procedures: Fire fighter should wear self-contained breathing apparatus .

Unusual Fire and Explosion Hazards: Unknown . If closed containers of lage amounts are allowed to heat , pressure may build and cause container to burst .

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	×	High temperature , flame

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts
CO , hydrocarbon oxidation products including organic acids , aldehydes and alchols

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	×	High temperature , flame

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? × Skin? × Ingestion? ×

Health Hazards (Acute and Chronic)
Oral-Rat ; LD_{50} 5620 mg/kg (Ethyl acetate)

Inhalation-rat ; LC_{50} 1600 ppm/8h. (Ethyl acetate)

Harmful if swallowed inhaled or absorbed through skin .

Carcinogenicity: NTP? Unknown IARC Monographs? Unknown OSHA Regulated? Unknown

Unlisted as carcinogenic material .

Signs and Symptoms of Exposure
Eye-irritating , headache , dazzling , wheezing , shortness of breath

Medical Conditions
Generally Aggravated by Exposure Narcotism , breathing paralysis as acute toxic

If inhaled , remove to fresh air , if breathing is difficult give oxigen and call a physician immediately .

Emergency and First Aid Procedures
Skin contact : Wash affected area with soap and water .

Eye contact : Flush with water for at least 15 min , and call a physician immediately .

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
Eliminate all sources of ignition . Wear organic solvent resistant gloves , safety glasses and a NIOSH/MSHA approved air purifying respirator with organic vapor cartrige .

Wipe off with dry cloth , and wipe off with thinner .

Waste Disposal Method
Disposal by an industrial waste firm which is qualified to handle hazadous materiais is recomended .

Incineration requires scrubbing of combustion product to remove silica and so on.

Precautions to Be Taken in Handing and Storing
Keep away from heat , fire and flame . Keep out of the reach of children .

Use only at well ventilated place . Avoid eye and skin contact . Keep container closed when not in use .

Other Precautions
In adition to any listed precautions , you should consult your occupational safety and health specialist to insure that the suggested handling procedures will be adequate and in compliance with applcable laws and regulations .

Section VIII - Control Measures

Respiratory Protection (Specify Type)
NIOSH/MSHA approved air purifying respirator with organic vapor cartrige .

Ventilation	Local Exhaust Necessary to maintain	Special
	Mechanical (Genral) exposure below TLV's.	Other

Protective Gloves Rubber organic solvent resistant	Eye Protection Safety goggles

Other Protective Clothing or Equipment

Work/hygienic Practices
Medical surveillance and employee training proposed to be required .