

MATERIAL SAFETY DATA SHEET

FINISH LINE-ASSEMBLY LUBE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME ASSEMBLY LUBE

PRODUCT USE Antiseize Compound

SUPPLIER Finish Line Technologies
1545 Fifth Industrial Ct
Bay Shore, NY 11706
Tel: (631) 666-7300
Fax: (631) 666-7391

EMERGENCY TELEPHONE Chemtrek: 1(800)424-9300
Overseas: 1(703) 527-3887

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	30-50 %
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	10-30 %
*COPPER	7440-50-8	10-30 %
*CALCIUM HYDROXIDE (Ca(OH) ₂)	1305-62-0	7-13 %
*GRAPHITE	7782-42-5	3-7 %
*BENTONITE, BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL QUATERNARY AMMONIUM SALTS	68953-58-2	3-7 %
*NITROUS ACID, SODIUM SALT (COMMON NAME: SODIUM NITRITE)	7632-00-0	0.5-1.5 %
*SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	14808-60-7	<0.2 %

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Exposure to vapors generated at high temperatures, may cause respiratory irritation.

ACUTE EFFECTS

CHRONIC EFFECTS

SENSITIZATION	No known information.
CARCINOGENICITY	See Section 11 for toxicological data on cancer risks.
TERATOGENICITY	No known information.

HEALTH WARNINGS

INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. **SKIN CONTACT.** Repeated or prolonged contact can result in drying of the skin. **EYE CONTACT.** Slightly irritating. **INGESTION.** Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

OTHER INFORMATION

ROUTE OF ENTRY	Inhalation. Skin and/or eye contact. Ingestion.
MEDICAL SYMPTOMS	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not determined

4. FIRST AID MEASURES

INHALATION	Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
EYES	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.
SKIN	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
INGESTION	DO NOT INDUCE VOMITING! Get medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	N/D
FLAMMABILITY LIMIT - LOWER(%)	N/D
FLAMMABILITY LIMIT - UPPER(%)	N/D
EXTINGUISHING MEDIA	Use: Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.
SPECIAL FIRE FIGHTING PROCEDURES	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
UNUSUAL FIRE & EXPLOSION HAZARDS	Pressure will increase in over heated, closed containers.
HAZARDOUS COMBUSTION PRODUCTS	Oxides of: Carbon.

PROTECTIVE MEASURES IN-CASE OF FIRE Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Minimize skin contact.

PRECAUTIONS TO PROTECT THE ENVIRONMENT Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbant material. Avoid discharge to natural water ways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.

STORAGE CRITERIA Chemical storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC	OSHA			5 mg/m3 **(1)	
	ACGIH			5 mg/m3 **(1)	10 mg/m3 **(1)
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	OSHA			5 mg/m3 **(1)	
	ACGIH			5 mg/m3 **(1)	10 mg/m3 **(1)
COPPER	OSHA			1 mg/m3	
	ACGIH			1 mg/m3	
CALCIUM HYDROXIDE (Ca(OH)2)	OSHA	15 mg/m3 (total)		5 mg/m3 (resp)	
	ACGIH			5 mg/m3	
	NIOSH	5 mg/m3			
GRAPHITE	OSHA			2.5 mg/m3	
	ACGIH			2 mg/m3	
NITROUS ACID, SODIUM SALT (COMMON NAME: SODIUM NITRITE)	OSHA			15 mg/m3	
	ACGIH				

SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	OSHA	0.1 mg/m3 (resp)
	ACGIH	0.05 mg/m3 (resp) **A2
	NIOSH	0.05 mg/m3 **Ca

INGREDIENT COMMENTS

** (1) For respirable oil mist.
 **ACGIH A2: Suspected Human Carcinogen.
 **NIOSH Ca: Carcinogen defined with no further categorization.

PROTECTIVE EQUIPMENT



ENGINEERING CONTROLS

Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES

Chemical resistant gloves recommended to prevent prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

EYE PROTECTION

Use eye protection.

PROTECTIVE CLOTHING

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE	Paste		
COLOR	Copper		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
SPECIFIC GRAVITY	1.16		
VAPOR DENSITY (air=1)	> 5		
VAPOR PRESSURE	< 0.01 mmHg	Temperature (°C)	20
EVAPORATION RATE	< 0.01	Reference	BuAc=1
pH-VALUE, CONC. SOLUTION	N/A		

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid contact with acids and oxidizing substances.
HAZARDOUS POLYMERIZATION	Will not occur.
POLYMERIZATION DESCRIPTION	Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	No experimental toxicological data on the preparation as such is available.
COMPONENT	SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)
CARCINOGENICITY	OSHA: Not regulated. IARC Group 1 designation: The agent is carcinogenic to humans with sufficient evidence in humans. NTP-1 designation: Known to be a carcinogen with sufficient evidence from studies in humans.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	There is no ecological data on the product itself.
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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.
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14. TRANSPORT INFORMATION

DOT HAZARD CLASS	Not regulated.
IDENTIFICATION No.	N/A
U.S. DOT HAZARD LABEL	No DOT label requirement
SEA TRANSPORT NOTES	Not regulated.
AIR TRANSPORT NOTES	Not regulated.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC	No	No	No
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	No	No	No
COPPER	No	5 000 lbs	Yes
CALCIUM HYDROXIDE (Ca(OH)2)	No	No	No
GRAPHITE	No	No	No
BENTONITE, BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL QUATERNARY AMMONIUM SALTS	No	No	No
NITROUS ACID, SODIUM SALT (COMMON NAME: SODIUM NITRITE)	No	100 lbs	Yes
SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	No	No	No
See Section 2 for Additional Information			

CLEAN AIR ACT

SARA(311/312) HAZARD CATEGORIES None

US STATE REGULATIONS

COMPONENT	CAS No	CA	FL	MA	MN	NJ	PA	RI
SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)		Cancer						

WORKPLACE HAZARDOUS MATERIALS

INFORMATION SYSTEM - WHMIS Not a controlled product.

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
COPPER	DSL	Yes	EINECS	Yes		Yes		Yes
CALCIUM HYDROXIDE (Ca(OH)2)	DSL	Yes	EINECS	Yes	Yes	Yes		Yes
GRAPHITE	DSL	Yes	EINECS	Yes		Yes		Yes
BENTONITE, BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL QUATERNARY AMMONIUM SALTS	DSL	Yes	EINECS					
NITROUS ACID, SODIUM SALT (COMMON NAME: SODIUM NITRITE)	DSL	Yes	EINECS	Yes	Yes	Yes		Yes
SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	DSL	Yes	EINECS	Yes	Yes	Yes		Yes
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

HEALTH	Irritation, minor residual injury (1) - HMIS/NFPA
FLAMMABILITY	Burns only if pre-heated (1) - HMIS/NFPA
REACTIVITY	Normally Stable (0) - HMIS/NFPA
PREPARED BY	James W. Hermann
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