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H.M.I.S.	
HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	B
These ratings should be used only as part of fully implemented H.M.I.S. program.	

MATERIAL SAFETY DATA SHEET

DATE OF PREPARATION 6/2000

SECTION I

TRADE NAME: DURO DYNE DLS DUCT LOCK SEALANT - FLAMMABLE
MANUFACTURER CODE I.D.: DLS

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	C.A.S. NO.	% BY WGT	ACGIH TLV
ALIPHATIC	8052-41-3	15-30	500 PPM
HYDROCARBON			
SOLVENT			
QUARTZ (S10 ₂)	14808-60-7	<1	0.1 mg/m3 (TWA)

SECTION III - HEALTH INFORMATION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting eye, skin, and pulmonary disorders may be aggravated by exposure of this product.

EYES: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Can cause redness, irritation.

INHALATION: Prolonged inhalation of vapors may cause irritation of the respiratory tract. Intentional misuse by deliberately concentrating and inhaling vapor may be harmful or fatal.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

SWALLOWING: DO NOT induce vomiting. Get medical attention.

INHALATION: Remove affected person to fresh air, give oxygen or artificial respiration as necessary to assist breathing. Get medical attention.

EYES: Flush with large amounts of water, frequently flushing under the lids. Seek medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation persists.

ACUTE EFFECTS OF OVEREXPOSURE: Irritation, redness.

CHRONIC EFFECTS: (Include all potential carcinogens present @ .1% or greater.) The International Agency for Research or Cancer (IARC) Monographs has identified respirable quartz (S10₂) as a suspect human cancer causing agent based on limited human evidence but sufficient evidence in experimental animals (Class 2A). Exposure to respirable quartz will not be possible with this product under normal conditions of use.

CARCINOGENICITY

NTP: No

IARC MONOGRAPHS: Yes

OSHA REGULATED: No

SECTION V - PHYSICAL DATA

BOILING POINT: 352 DEG. F.

VAPOR DENSITY (AIR = 1): 5.0

% VOLATILE BY VOLUME: 15-30%

EVAPORATION RATE: 70

% SOLIDS (by weight): 70% minimum

APPEARANCE/PHYSICAL DESCRIPTION: Available in various colors, characteristic aliphatic hydrocarbon odor

PHYSICAL FORM: Paste

MELTING/FREEZING POINT: N/A

SOLUBILITY IN WATER: 0.5%

SPECIFIC GRAVITY (WATER =1): 1.37

VAPOR PRESSURE (mmHg): 5 mm Hg @ 78°F, 26°C

SECTION VI - FIRE AND EXPLOSION DATA

AUTOIGNITION: N.E.

FLASH POINT: 106°F

UPPER EXPLOSIVE LIMIT (%): 6.0

LOWER EXPLOSIVE LIMIT (%): 0.5

EXTINGUISHING MEDIA: Foam, dry chemical or carbon dioxide. Water may be ineffective, but water should be used to keep fire exposed containers cool.

SPECIAL FIREFIGHTING PROCEDURES: Treat as class "B" fire. Limit fire fighting to those trained to do so. If a leak or spill has ignited, use water spray to disperse the vapors and to protect the men attempting to stop the leak. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

FIRE & EXPLOSION HAZARDS: Vapors are heavier than air & may travel along the ground and be ignited by ignition sources distant from the handling point. Residue in "empty" containers may be explosive if exposed to an ignition source. To prevent fire or explosion from static accumulation and discharge, effectively ground the product transfer system.

SECTION VII - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: None known

HAZARDOUS DECOMPOSITION PRODUCTS: In the event of partial combustion, fumes, smoke, carbon monoxide, aldehydes, and other decomposition products may be released.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING

VENTILATION: General exhaust as needed to keep TLV below recommended levels if engineering or administrative controls are not adequate.

PERSONAL PROTECTIVE EQUIPMENT: Respirator: For large spills or entry into enclosed small spaces with inadequate ventilation, a pressure demand, self-contained breathing apparatus is recommended. If engineering or administrative controls are not adequate to maintain solvent TLV below recommended levels, an appropriate respirator should be used in conjunction with a respirator use and fit training program. Although Duro Dyne has no control over the customer's method of using this product, under conditions of normal use the respirable quartz contained in the product is a completely incorporated component, and as such should not present an inhalation hazard.

GLOVES: Buna-N if needed.

EYE PROTECTION: Safety glasses with side shields, if needed.

OTHER PROTECTIVE CLOTHING/ARTICLES: To prevent repeated or prolonged skin contact, wear impervious clothing and boots if contact is likely.

WORK/HYGIENIC PRACTICES: Minimize breathing vapor. Avoid prolonged or repeated contact with the skin. Remove contaminated clothing and launder before reuse. Cleanse skin thoroughly after contact, before work breaks and meals, and at the end of the work day. Product is readily removed from the skin with waterless hand cleaners followed by washing thoroughly with soap and water.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Control the source of the spill if it is safe to do so. Ventilate enclosed areas to prevent vapor accumulation. Restrict access by unauthorized personnel. Absorb spilled product with vermiculite or other absorbent material. Shovel or scoop into a sealable container for disposal.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING (CONTINUED)

WASTE DISPOSAL METHOD: If this product becomes a waste, it is considered a hazardous waste due to its ignitability. Dispose of in accordance with Local, State, and Federal Environmental and Waste Regulations.

STORAGE AND HANDLING PROCEDURES: Do not store or handle near an ignition source. Keep containers closed. Effectively ground the product transfer system to prevent fire or explosion from static discharge. Empty containers may contain residual product. Do not reuse containers unless properly reconditioned.

SECTION IX - REGULATORY INFORMATION

All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under RCRA 40 CFR 261: ignitability.

Hazardous Materials Identification System (HMIS):

Health Hazard Rating: 1 CAUTION Irritation or minor reversible injury possible.

Flammability Hazard Rating: 2 CAUTION Material must be moderately heated before ignition will occur.

Reactivity Hazard Rating: 0 Normally stable and will not react with water.

Personal Protective Equipment: B Safety glasses and gloves.

EPA SARA Title III Hazard Class (40 CFR 370): Acute Health Hazard
Chronic Health Hazard
Fire Hazard

EPA SARA Title Section 313(40 CFR 372): There are no listed toxic chemicals present in quantities greater than the *de minimis* level.

EPA SARA Title III (40 CFR 355): There are no components present in this product at a level which would require reporting.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains no listed substances, which the State of California has found to cause cancer, birth defects, or other reproductive harm, in a form which would require a warning under the statute.

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