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#4156 STEWART-WARNER

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MATERIAL SAFETY DATA SHEET (M S D S)
For Oils, Greases and Related Lubricating Materials

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SECTION I - PRODUCT IDENTIFICATION

Manufacturer: ALEMITE CD-2 COMPANY
799 Biermann Court
Mt. Prospect, IL 60056

Information Phone: 708-391-1314
Emergency Phone: 708-391-1314
CHEMTREC Phone: 800-424-9300

Trade Name : ALEMITE CD-2 GENERAL PURPOSE WHITE LITHIUM GREASE
Product Class: GREASE

! Hazard Ratings: Health - 1
! none -> extreme Fire - 1
! 0 ---> 4 Reactivity - 0
!
! Personal Protection - B

Product Code : 5376B-215
C.A.S. Number: COMPLEX MIXTURE

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Weight %	Exposure Limits ACGIH/TLV	OSHA/PEL	VP mm HG
PETROLEUM HYDROCARBON	64742-62-7	20-50	5 mg/M3	5 mg/M30	
THE IMMEDIATELY ABOVE PETROLEUM HYDROCARBON COMPONENT CONTAINS < 30 PPM TOLUENE (CAS# 108-88-3) WHICH IS LISTED BY THE CALIFORNIA SAFE WATER AND TOXIC ENFORCEMENT ACT KNOWN AS PROPOSITION 65.					
PETROLEUM HYDROCARBON	64742-52-5	50-75	5 mg/M3	5 mg/M30	
LITHIUM TALLOWATE	64755-02-08	5-20	Undetermined	NONE	N/AV
*BARIUM&ZINC COMPOUND	PROPRIETARY	5-20	Undetermined	NONE	N/AP

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory.

THE WORD SARA DIRECTLY UNDER AN INGREDIENT IN THIS SECTION MEANS THAT IT IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT.

SARA 313 - THIS INGREDIENT CONTAINS 70% BARIUM COMPOUND; AS BA = 41.5% AND 30% ZINC COMPOUND; AS ZN = 19.5%.

SARA 311 CATEGORY - HEALTH HAZARD IMMEDIATE.

SARA 313 - CONTAINS INORGANIC BARIUM/ZINC COMPOUND WHICH REQUIRES REPORTING UNDER SARA 313. READ FURTHER IN SECTION II FOR ADDITIONAL INFORMATION.

INGREDIENTS ARE PROPRIETARY. POTENTIAL HAZARDS HAVE BEEN EVALUATED AND PERTINENT INFORMATION HAS BEEN INCLUDED IN SECTIONS III-IX. EACH PROPRIETARY MATERIAL IS EITHER: 1. HELD A TRADE SECRET FROM CATO, 2. OSHA-NON-HAZARDOUS OR BELOW 1% IF OSHA HAZARDOUS AND 3. BELOW 0.1% IF POTENTIALLY CARCINOGENIC.

SUMMARY OF HAZARDS - WARNING: CONTAINS PETROLEUM HYDROCARBON LUBRICANT AND BARIUM/ZINC COMPOUND.

(cont.)

M S D S for: ALEMITE CD-2 GENERAL PURPOSE WHITE LITHIUM GREASE

SECTION II - HAZARDOUS INGREDIENTS (cont.)

-OTHER PRECAUTIONS: (cont.)

MAY BE HARMFUL IF INHALED OR SWALLOWED.
USE ONLY WITH ADEQUATE VENTILATION. IF INGESTED, DO NOT
INDUCE VOMITING; CONTACT A PHYSICIAN.
KEEP OUT OF REACH OF CHILDREN

* -> These items are listed on the SARA TITLE III Section 313 inventory

SECTION III - PHYSICAL DATA

Boiling Range:	N/A Deg. F	Vapor Density:	Heavier than Air.
Evap. Rate:	Slower than n-Butyl Acetate	Liquid Density:	Lighter than Water.
Volatiles volume:	N/AV %	Wgt per gallon:	7.62 Pounds.
		Spec. Gravity:	0.91

Appearance: AMBER GREASE
V.O.C.: N/AV

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1 Flash Point: N/A LEL: N/AV

-EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL OR FOAM.

-SPECIAL FIREFIGHTING PROCEDURES:

WATER STREAM MAY SPREAD FIRE, USE WATER SPRAY ONLY TO COOL
CONTAINERS NOT ON FIRE.

-UNUSUAL FIRE & EXPLOSION HAZARDS:

WILL NOT FLASH SPONTANEOUSLY. MAY IGNITE IF EXPOSED TO OPEN
FLAME.

THE BARIUM & ZINC COMPOUND COMPONENT OF THIS PRODUCT
MAY EVOLVE OXIDES OF SULFUR OR HYDROGEN SULFIDE IF INVOLVED
IN A FIRE.

SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:

TWA = 5 MG/M3; STEL = 10 MG/M3--AS OIL MIST--RESPIRATORY
IRRITANT. SEE SECTION II FOR CONCISE INFORMATION CONCERNING
INGREDIENTS HAVING A PEL.

-EFFECTS OF OVEREXPOSURE:

INHALATION: NOT EXPECTED TO BE ACUTELY TOXIC BY INHALATION IF
RECOMMENDED EXPOSURE LEVELS ARE NOT EXCEEDED.
BREATHING PETROLEUM OIL MIST AT CONCENTRATIONS IN AIR THAT
EXCEED THE RECOMMENDED EXPOSURE STANDARD CAN CAUSE
RESPIRATORY IRRITATION OF DISCOMFORT.

SKIN: UNDER NORMAL CONDITIONS OF USE, EXPECTED TO CAUSE NO
MORE THAN MINOR SKIN IRRITATION WITH PROLONGED OR REPEATED
CONTACT. PRIMARY HAZARD ASSOCIATED WITH GREASE IN HIGH PRESSURE
GUN. IF INJECTED UNDER SKIN NECROSIS COULD RESULT.

EYES: UNDER NORMAL CONDITIONS OF USE, EXPECTED TO CAUSE NO
MORE THAN MINOR, IF ANY, EYE IRRITATION BASED ON DATA FROM
COMPONENTS.

(cont.)

SECTION V - HEALTH HAZARD DATA (cont.)

-EFFECTS OF OVEREXPOSURE: (cont.)

SWALLOWING/ INGESTION: MAY CAUSE IRRITATION, NAUSEA OR
DIARRHEA. POSSIBLE ASPIRATION HAZARD.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE
KNOWN, BUT MAY AGGRAVATE PREVIOUSLY EXISTING SKIN DISORDERS.
LISTED AS A POTENTIAL CARCINOGEN OR CARCINOGEN? NOT LISTED
BY IARC, NTP, OR OSHA.

-FIRST AID:

INHALATION: IF RESPIRATORY DISCOMFORT OF IRRITATION OCCURES
MOVE PERSON TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE
ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: WASH EXPOSED PORTION WITH SOAP AND WATER. LAUNDRER
SOILED CLOTHES BEFORE REUSE. IF INJECTED UNDER SKIN GET
MEDICAL ATTENTION IMMEDIATELY.

EYES: IMMEDIATELY FLUSH EYES WITH WATER FOR A MINIMUM OF 15
MINUTES OCCASIONALLY LIFTING THE LOWER AND UPPER LIDS. IF FILM
OR IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

SWALLOWING/ INGESTION: DO NOT INDUCE VOMITING; CONTACT
A PHYSICIAN.

SECTION VI - REACTIVITY DATA

STABILITY: [] Unstable [x] Stable
HAZARDOUS POLYMERIZATION: [] May occur [x] Will not occur

-INCOMPATIBILITY

STRONG OXIDIZERS.

DUE TO THE PROPERTIES OF THE BARIUM & ZINC COMPOUND COMPONENT
OF THIS PRODUCT ONE SHOULD AVOID CONTACT OF THIS PRODUCT WITH
STRONG ACIDS.

-CONDITIONS TO AVOID:

AVOID CONDITIONS THAT COULD GENERATE AN OIL MIST. DO NOT
EXPOSE THE PRODUCT TO STRONG OXIDIZERS OR EXCESSIVE HEAT.

-HAZARDOUS DECOMPOSITION PRODUCTS:

INCOMPLETE COMBUSTION CAN YIELD CARBON (SMOKE), CARBON
MONOXIDE, VARIOUS HYDROCARBONS AND EVOLVE OTHER TOXIC
GASES OR VAPORS. BURNING YIELDS ALKALINE EARTH OXIDE/OXIDES
AND SPECIFICALLY ZINC AND BARIUM OXIDES.

ON COMBUSTION HYDROGEN SULFIDE AND OR SULFUR OXIDES
MAY BE RELEASED FROM THE BARIUM & ZINC COMPOUND COMPONENT
OF THIS PRODUCT; ALSO INORGANIC ZINC AND BARIUM COMPOUNDS
WILL BE FORMED WHICH MAY SUBLIME(BE DISPERSED IN THE AIR).

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SECTION VII - SPILL OR LEAK PROCEDURES

- STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
PICK UP AND PLACE IN CONTAINER FOR DISPOSAL.
- WASTE DISPOSAL METHOD:
EPA HAZARDOUS WASTE? NOT KNOWN, CHECK BY TCLP FOR BARIUM.
EPA HAZARDOUS WASTE CODE NUMBER--IF POSITIVE FOR BARIUM BY TCLP,
THEN D005.
EPA WASTE CHARACTERISTIC OR HAZARD CODE--IF POSITIVE FOR BARIUM
BY TCLP, THEN EP TOX BY
TCLP.

UTILIZE LICENSED WASTE DISPOSAL COMPANY. CONSIDER RECYCLING
OR CONTROLLED INCINERATION. UTILIZE PERMITTED INDUSTRIAL
WASTE DISPOSAL SITE. FOLLOW ALL LOCAL, STATE AND FEDERAL
GUIDELINES.

SECTION VIII - SPECIAL PROTECTION INFORMATION:

- RESPIRATORY PROTECTION:
UP TO 25 MG/M3, HALF-MASK ORGANIC VAPOR RESPIRATOR. UP TO
50 MG/M3, FULL-FACE ORGANIC VAPOR RESPIRATOR OR FULL-FACE
SELF-CONTAINED RESPIRATOR. GREATER THAN 50 MG/M3, FIRE
FIGHTING OR UNKNOWN CONCENTRATION, USE SELF CONTAINED
BREATHING APPARATUS WITH POSITIVE PRESSURE.
- VENTILATION:
MAINTAIN LOCAL OR DILUTION VENTILATION TO KEEP AIR CONCENTRATION
BELOW TLV/PEL. REQUEST ASSISTANCE OF SAFETY AND INDUSTRIAL
HYGIENE PERSONNEL TO DETERMINE AIR CONCENTRATION.
- PROTECTIVE GLOVES:
FOR PROLONGED OR REPEATED CONTACT USE NITRILE OR
NEOPRENE GLOVES OR OTHER MATERIAL RESISTANT TO
PETROLEUM OILS.
- EYE PROTECTION:
SAFETY GLASSES, CHEMICAL GOGGLES OR FACE SHIELD AS APPROPRIATE
FOR EXPOSURE.
- OTHER PROTECTIVE EQUIPMENT:
NONE NORMALLY REQUIRED.

SECTION IX - SPECIAL PRECAUTIONS

- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
STORE CLEAN, DRY, BELOW 120°F (50°C) TO PRESERVE FOR INTENDED
USE. DO NOT STORE WITH STRONG OXIDIZERS.
- OTHER PRECAUTIONS:
DOT HAZARDOUS MATERIAL? NO
DOT SHIPPING NAME AND NUMBER - NOT APPLICABLE
DOT HAZARD CLASS - NOT APPLICABLE

DISCLAIMER

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS
PUBLICATION HAVE BEEN COMPILED FROM SOURCES BELIEVED TO
BE RELIABLE AND TO REPRESENT THE BEST CURRENT OPINION ON
(cont.)

SECTION IX - SPECIAL PRECAUTIONS (cont.)

-OTHER PRECAUTIONS: (cont.)

THE SUBJECT AT THE TIME OF PUBLICATION. SINCE WE CANNOT ANTICIPATE OR CONTROL THE MANY DIFFERENT CONDITIONS UNDER WHICH THIS INFORMATION OR OUR PRODUCTS MAY BE USED, WE MAKE NO GUARANTEE THAT THE RECOMMENDATIONS WILL BE ADEQUATE FOR ALL INDIVIDUALS OR SITUATIONS. EACH USER OF THE PRODUCT DESCRIBED HEREIN SHOULD DETERMINE THE SUITABILITY OF THE DESCRIBED PRODUCT FOR HIS PARTICULAR PURPOSE AND SHOULD COMPLY WITH ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS CONCERNING THE DESCRIBED PRODUCT.

ABBREVIATIONS:

N/A	NOT APPLICABLE	PEL	PERMISSIBLE EXPOSURE LIMIT
N/K	NOT KNOWN	TWA	TIME WEIGHTED AVERAGE
N/AV	NOT AVAILABLE	TLV	THRESHOLD LIMIT VALUE
COC	CLEVELAND OPEN CUP	STEL	SHORT TERM EXPOSURE LIMIT
PMCC	PENSKI-MARTENS CLOSED CUP		
G	GRAM	DOT	DEPARTMENT OF TRANSPORTATION
MG	MILLIGRAM	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
M3	CUBIC METER	SARA	SUPERFUND AMEND. & REAUTHORIZ. ACT
LD 50	LETHAL DOSE 50%		
LC 50	LETHAL CONCENTRATION 50%		
EPA	ENVIRONMENTAL PROTECTION AGENCY		
SAE	SOCIETY OF AUTOMOTIVE ENGINEERS		
ISO	INTERNATIONAL STANDARDS ORGANIZATION		

