

LOCK SAVER (R*)

LOCK SAVER AEROSOL

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: LOCK SAVER (AEROSOL)

PRODUCT DESCRIPTION:

SUPERIOR QUALITY FORMULA PROVIDES HIGHLY EFFECTIVE AND LONG LASTING PROTECTION ON PRECISION FITTED METAL PARTS. THE ALL SYNTHETIC LUBRICATING FILM PERFORMS EXTREMELY WELL IN A WIDE VARIETY OF CLIMACTIC CONDITIONS AND TEMPERATURES. VAPOR-PHASE CORROSION INHIBITOR ENHANCED FORMULA PROTECTS ALL FERROUS AND NON-FERROUS METALS FROM RUST AND CORROSION. SPECIALLY DESIGNED FOR USE IN A WIDE VARIETY OF LOCK LUBRICATING APPLICATIONS BY INDUSTRIAL OR CONSUMER USERS. THE LUBRICATING FILM IS VERY STABLE AND HIGHLY RESISTANT TO WATER WASH OUT, RUN OFF, OR DRY OUT CONDITIONS.

WARNING:

SPRAY IS EXTREMELY FLAMMABLE. DO NOT SPRAY ELECTRICALLY ENERGIZED LOCKS OR APPLY NEAR OPEN FLAMES AND OTHER POTENTIAL IGNITION SOURCES!

RESTRICTIONS: NON-RESTRICTED.

SECTION II - HAZARDOUS INGREDIENTS-FLAMMABLE

PROPELLANTS ONLY = 97% OF FORMULATION TOTAL

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
ISOHEXANE	107-83-5	500 PPM	5 G/KG (RAT)
PROPANE	74-98-6	1000 PPM	N.E.
ISOBUTANE	75-28-5	800 PPM	N.E.

CARCINOGENIC:

OSHA: NO
NTP: NO
IARC: NO

THIS PRODUCT ALSO CONTAINS INGREDIENTS NOT REQUIRED LISTED UNDER GUIDELINES OF 40 CFR AND 49 CFR 172.10.

ALL INGREDIENTS

NON-HAZARDOUS INGREDIENTS: BASE COMPOUND = 3% OF FORMULATION TOTAL

FLUORO LB - (CAS# 9002-84-0) 48% OF 3% BASE COMPOUND

DURAD 125 - TRICRESYL PHOSPHATE (CAS# 1330-78-5) (ORTHO ISOMER <4% OF 3% BASE COMPOUND)

REMOL TOP - TRIS (2 ETHYLHEXYL) PHOSPHATE (CAS# 2919-90-5010) (<4% OF 3% BASE COMPOUND)

NA-SUL-CA-HT-(CAS# 64742-53-6) (3% OF 3% BASE COMPOUND)

TALLICIN 2597 - BASE OIL (CAS# 11138-60-6) (40% OF 3% BASE COMPOUND)

M-529 - CALCIUM DINONYLNAPHTHALENE SULFONATE COMPLEX (CAS# 57855-77-3) (.5% OF 3% OF BASE COMPOUND)

DECENE, HOMOPOLYMER, HYDROGENATED (CAS# 68037-01-4) (.5% OF 3% OF BASE COMPOUND)

(M-529 COMBINED = 1% OF 3% BASE COMPOUND)

SECTION III - PHYSICAL DATA

APPEARANCE: OFF-WHITE COLORED LUBRICATING FILM

ODOR: ODOR OF VANILLA

BOILING POINT: ESTIMATED 158 DEG. F (70 DEG. C) (MIXTURE LESS PROPELLANT)

VAPOR DENSITY (AIR = 1): 3.1 (ESTIMATED)

VAPOR PRESSURE: 1,602 MMHg

SOLUBILITY IN WATER: NEGLIGIBLE

SPECIFIC GRAVITY (H2O = 1): 0.674 - 1.0 (ESTIMATED)

EVAPORATION RATE (n-BUTYL ACETATE = 1): 8.20 (ESTIMATED)

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING:

HEALTH 1
FIRE 3
REACTIVITY 0

FLASH POINT: BELOW -20 DEG. F (-28 DEG. C)

FLAMMABLE LIMITS (FOR LOWEST FLASHING INGREDIENT - PROPANE / ISOBUTANE PROPELLANT BLEND):

LEL: 1.8
UEL: 9.5

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, CO2, OR WATER FOG.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
SPRAY IS EXTREMELY FLAMMABLE; VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL
CONSIDERABLE DISTANCES TO IGNITION SOURCES TO FLASH OR EXPLODE.

SPECIAL FIRE FIGHTING PROCEDURES:
FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING. COOL FIRE-EXPOSED AEROSOLS WITH WATER FOG.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT:
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

SKIN CONTACT:
WASH SKIN WITH SOAP AND WATER. IF IRRITATION DEVELOPS OR PERSISTS, CONSULT
A PHYSICIAN.

INHALATION:
REMOVE VICTIM TO FRESH AIR. ADMINISTER OXYGEN IF NECESSARY. IF VICTIM HAS
STOPPED BREATHING BEGIN CPR AND GET IMMEDIATE MEDICAL ATTENTION.

INGESTION:
CONSULT A PHYSICIAN IMMEDIATELY IF SWALLOWED. DO NOT INDUCE VOMITING
UNLESS PHYSICIAN DIRECTED. IF SPONTANEOUS VOMITING OCCURS, KEEP VICTIM'S
HEAD BELOW HIPS TO PREVENT ASPIRATION INTO THE LUNGS AND GET IMMEDIATE
MEDICAL ATTENTION. THIS LUBRICANT PRODUCT CONTAINS PETROLEUM DISTILLATES,
WHICH ARE HARMFUL AND MAY BE FATAL IF SWALLOWED.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
PRE-EXISTING SKIN CONDITIONS, PRE-EXISTING HEART CONDITIONS.

PRIMARY ROUTES OF ENTRY: INHALATION, SKIN AND EYE CONTACT.

HEALTH HAZARDS (ACUTE AND CHRONIC) / EFFECTS OF OVEREXPOSURE:
INHALATION OVEREXPOSURES TO VAPORS MAY CAUSE DIZZINESS, WEAKNESS, FATIGUE,
NAUSEA, HEADACHE, OR UNCONSCIOUSNESS. EXTREME INHALATION OVEREXPOSURES MAY
RESULT IN ASPHYXIATION. LONG-TERM, CHRONIC OVEREXPOSURES TO HEXANE VAPORS
AND BREATHING OF AEROSOL MISTS IN AIR MAY RESULT IN PERIPHERAL NERVE AND
LUNG DAMAGE.

WARNING:
INTENTIONALLY CONCENTRATING AND INHALING VAPORS OF THIS PRODUCT IS HARMFUL
AND MAY BE FATAL.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL USE AND STORAGE CONDITIONS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS (UNDER FIRE CONDITIONS):
OXIDES OF CARBON, UNIDENTIFIABLE ORGANIC AND INORGANIC SUBSTANCES.

INCOMPATIBILITY:
AVOID STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES AND SELECTED AMINES.

CONDITIONS TO AVOID:
AVOID HEAT, OPEN FLAME, AND ALL OTHER POTENTIAL IGNITION SOURCES.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE IGNITION SOURCES. VENTILATE SPILL AREA. TAKE UP SPILLED LUBRICANT ON INERT ABSORBENT MATERIALS AND PLACE INTO DOT APPROVED CLOSED-TOP WASTE CONTAINERS FOR EVENTUAL DISPOSAL. PREVENT SPILLED LUBRICANT FROM ENTERING SEWERS OR DRAINS.

WASTE DISPOSAL:
DISPOSE OF WASTE OR UNWANTED PRODUCT IN ACCORDANCE WITH EXISTING FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. WASTE MAY BE RECLAIMED OR INCINERATED BY PERMITTED FACILITIES.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:
NOT NORMALLY REQUIRED - MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE WHEN APPLIED AS INTENDED. WEAR A NIOSH APPROVED ORGANIC RESPIRATOR FOR NUISANCE-LEVEL VAPORS, A POSITIVE PRESSURE, AIR-SUPPLIED RESPIRATOR IN HIGH VAPOR CONCENTRATIONS OR OXYGEN-DEFICIENT ATMOSPHERES. AVOID PRODUCING OR BREATHING MIST FORMATIONS IN AIR.

PROTECTIVE GLOVES: CHEMICAL RESISTANT NITRILE OR NEOPRENE GLOVES.

EYE PROTECTION: SAFETY GLASSES OR FACE SHIELD.

OTHER PROTECTIVE CLOTHING: NOT NORMALLY REQUIRED.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING:
USE IN WELL VENTILATED AREAS. PREVENT EYE AND SKIN CONTACTS. AVOID EXCESSIVE INHALATION OF VAPORS. DO NOT BREATHE AEROSOL MISTS. WHENEVER POSSIBLE, PERFORM LUBRICATING APPLICATIONS WITH EXTENSION TUBE MATED WITH THE VALVE ACTUATOR BUTTON TO KEEP MIST FORMATIONS AT MINIMAL LEVELS.

PRECAUTIONS TO BE TAKEN IN STORING:
STORE CONTAINERS BELOW 120 DEG. F (48 DEG. C), AWAY FROM OPEN FLAME, HEAT,

OTHER IGNITION SOURCES AND OUT OF DIRECT SUNLIGHT.

SECTION X - SHIPPING DATA

U.N. / N.A. NUMBER: UN1950

DOT/IATA SHIPPING NAME:

(DOT): AEROSOLS, FLAMMABLE, (EACH NOT EXCEEDING 1L CAPACITY).

(IATA): AEROSOLS, FLAMMABLE, EACH NOT EXCEEDING 1L CAPACITY.

DOT/IATA HAZARD CLASS:

(DOT): 2.1

(IATA): 2.1

DOT/IATA REQUIRED HAZARD LABELS:

(DOT, GROUND MODE): 2, FLAMMABLE GAS

(IATA): 2 FLAMMABLE GAS.

DOT EXCEPTION:

SEE CODE 49 SECTION 172.101, COLUMN (8A). SECTION 173.306(H) PERMITS "LIMITED QUANTITY" MATERIALS [INNER PACKAGINGS WHICH DO NOT EXCEED 1L CAPACITY / 61 CUBIC INCHES AND FOR WHICH INTERNAL PRESSURES DO NOT EXCEED 180 PSIG AT 130 DEG. F (54 DEG. C)] MEETING SECTION 171.8 DEFINITION OF "CONSUMER COMMODITY" TO BE RENAMED "CONSUMER COMMODITY", RECLASSIFIED AS ORM-D WHEN SHIPPED VIA GROUND MODE, DOMESTICALLY.

IMDG SHIPPING NAME: AEROSOLS, FLAMMABLE, (EACH NOT EXCEEDING 1L CAPACITY)

FREIGHT CLASS: NMFC 155250

LTL: 65

TL: 35

MW: 30

T.S.C.A. STATUS: ALL COMPONENTS LISTED

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