

## \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

date of prep : 04/03/92

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## SECTION I

manufacturer : ASSA HIGH SECURITY LOCKS  
 address : 103-00 Foster Avenue  
 Brooklyn, NY 11286

- H N I S -

telephone : (718) 927-2772  
 emergency : (800) 221-0529

HEALTH	: 1*
FLAMMABILITY	: 4
REACTIVITY	: 0
PERSONAL PROTECT.	: H

product class: PTFE

(HAZARD RATING : 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, \*chronic)

ofg. code id : L200-C02

(H = splash goggles, gloves, synthetic apron, &amp; vapor respirator)

Trade name : ASSA Lube - DRY FILM LUBRICANT - AEROSOL

## SECTION II-A

## HAZARDOUS COMPONENTS

no.	component	CAS#	SARA	vapor pressure (mm Hg @ 20 C)	LEL (@ 25 C)
1	TRICHLOROTRIFLUORoETHANE	76-13-1	5 - 10 % by wt YES	204.00	N/A
2	ACETONE	67-64-1	25 - 30 % by wt YES	182.00	2.60
3	HEXANE	110-54-3	NO	140.00	1.00
4	METHYL ISOBUTYL KETONE	100-10-1	1 - 5 % by wt YES	16.00	1.20
5	BUTANE	106-97-8	NO	999.99	1.90
6	PROPANE	74-98-6	NO	999.99	2.40

)) None of the components of this product are recognized as carcinogenic.

)) Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the Section 313 List (40 CFR Part 373.05) are identified under the heading 'SARA 313'.

(N/A = not applicable)

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## SECTION II-B

## OCCUPATIONAL EXPOSURE LIMITS

no.	(OSHA) PEL/TWA	PEL/CEILING	PEL/STEL	skin
1	1000ppm	N/E	N/E	N/E
2	750ppm	N/E	N/E	N/E
3	50 ppm	N/E	N/E	N/E
4	50 ppm	N/E	N/E	N/E
5	800 ppm	N/E	N/E	N/E
6	1000PPM	N/E	N/E	N/E

no.	(ACGIH) TLV/TWA	TLV/CEILING	TLV/STEL	skin
1	1000ppm	N/E	1250ppm	N/E
2	750ppm	N/E	1000ppm	N/E
3	50 ppm	N/E	N/E	N/E
4	50 ppm	N/E	75 ppm	N/E
5	800 ppm	N/E	N/E	N/E
6	ASPHYXIAANT	N/E	N/E	N/E

>> The dried film of this product may become a dust nuisance when removed by sanding or grinding. OSHA recommends a PEL/TWA of 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for the respirable fraction. ACGIH recommends a TLV/TWA of 10 mg/m<sup>3</sup> for total dust.

>> (SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact.

(N/E = not established)

## SECTION III

## PHYSICAL DATA

boiling point	: not established	% volatile by volume	: 99.21 +/- 2%
evaporation rate	: (1 (ether = 1))	% volatile by weight	: 97.73 +/- 2%
vapor density	: >1 (air = 1)	weight per gallon	: 6.95 +/- .2

## SECTION IV

## HEALTH INFORMATION

## EYE CONTACT

BASED ON THE PRESENCE OF COMPONENT 2, PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. BASED ON THE PRESENCE OF COMPONENTS 2, 4, 5 AND 6 PRODUCT VAPORS MAY ALSO BE IRRITATING TO THE EYES.

## SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENTS 2, 3, 4, 5 AND 6 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THE SKIN. BASED ON THE PRESENCE OF COMPONENTS 2, 3, 4, 5 AND 6 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERMATITIS.

## INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4, 5 AND 6 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. BASED ON THE PRESENCE OF COMPONENTS 1 AND 3 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CARDIAC ARRHYTHMIAS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. BASED ON THE PRESENCE OF COMPONENTS 3 AND 4 EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT AND OTHER MUCOUS MEMBRANES.

## INGESTION

BASED ON THE PRESENCE OF COMPONENT 4 PRODUCT IS PRESUMED TO BE SLIGHTLY TOXIC. BASED ON THE PRESENCE OF COMPONENTS 3 AND 4 SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. BASED ON THE PRESENCE OF COMPONENTS 3 AND 4 INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

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**SIGNS AND SYMPTOMS**

EYE, SKIN, RESPIRATORY, AND GASTRO-INTESTINAL IRRITATION AS NOTED ABOVE. BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4, 5 AND 6 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES UNCONSCIOUSNESS AND DEATH MAY OCCUR.

**AGGRAVATED MEDICAL CONDITIONS**

PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

**OTHER HEALTH EFFECTS**

BASED ON THE PRESENCE OF COMPONENT 2 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS. BASED ON THE PRESENCE OF COMPONENTS 3 AND 4 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS. BASED ON THE PRESENCE OF COMPONENTS 3 AND 4 REPEATED EXCESSIVE INGESTION MAY CAUSE CENTRAL NERVOUS EFFECTS.

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**SECTION V****EMERGENCY AND FIRST AID PROCEDURES**  
-----**EYE CONTACT**

IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF ANY SYMPTOMS PERSIST.

**SKIN CONTACT**

REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

**INHALATION**

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

**INGESTION**

DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

)) COMPONENT 4 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED.

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**SECTION VI****FIRE AND EXPLOSION HAZARDS**  
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flammability classification - OSHA : FLAMMABLE LIQUID - CLASS IB

- DOT : FLAMMABLE LIQUID

flash point : 0 +/-2 degrees F. (PNEC)

**EXTINGUISHING MEDIA**

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS**

WARNING. EXTREMELY FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEARTEWING OF CONTAINER STRUCTURE.

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## SECTION VII

## REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

## CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 3, 4, 5 AND 6 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 AVOID STRONG ACIDS. BASED ON THE PRESENCE OF COMPONENT 4 AVOID STRONG ALKALIES. BASED ON THE PRESENCE OF COMPONENTS 3 AND 4 AVOID AMINES AND ALKANOLAMINES. BASED ON THE PRESENCE OF COMPONENT 4 AVOID CHLORINATED COMPOUNDS. BASED ON THE PRESENCE OF COMPONENT 4 AVOID ALDEHYDES.

## HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

## SECTION VIII

## EMPLOYEE PROTECTION

## RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS/DUST. IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.

## PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES. DO NOT GET ON SKIN OR ON CLOTHING.

## ADDITIONAL PROTECTIVE MEASURES

USE VENTILATION AS REQUIRED TO CONTROL VAPOR/DUST CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

## SECTION IX

## ENVIRONMENTAL PROTECTION

## SPILL OR LEAK PROCEDURES

LARGE SPILLS )) EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS )) TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

## WASTE DISPOSAL

REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

## SECTION X

## ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

### SECTION V, HEALTH HAZARD DATA

Threshold Limit Value Not Determined

Effects of Overexposure Influenza-like symptoms may develop from inhalation of pyrolysis products.

Emergency and First Aid Procedures Remove from exposure, place individual at complete bed rest and contact a physician

### SECTION VI, REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid) <u>Molten Alkali Metals, Interhalogen Metals</u>			
Hazardous Decomposition Products <u>Hydrogen Fluoride and Perfluorocarbon Oelfins and Other Fluorinated Compounds</u>			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

### SECTION VII, SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up spilled material to prevent slipping

Waste Disposal Method 1. Landfill  
Destruction by incineration should be adequately ventilated.

### SECTION VIII, SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) None, except for normal nuisance dust levels

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other
Preferred		
Acceptable		

Protective Gloves Recommended during processing

Eye Protection Recommended

Other Protective Equipment Air tight container to protect against contamination of tobacco.

### SECTION IX, SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing Store in a cool dry warehouse