

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product:	LE-5, LE-5BK, LEC-5	Trade Name:	Lock - Ease
Manufacturer:	AGS Company	Common Name:	Lock Lubricant
Street Address:	2651 Hoyt St		
City/State/Zip	Muskegon Hts., MI 49444		
Phone:	800-253-0403		
Phone:	231-733-2101	Original Issue Date:	11/12/1985
FAX:	231-733-1784	Revision No	14 Date 6/11/2008
Transportation Emergency	CHEM-TEL		
Phone:	800-255-3924		

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

ITEM	CAS NUMBER	WT/WT %
1 N - Hexane	110-54-3	30-60
2 Stoddard Solvent	8052-41-3	15-40
3 Propane / Isobutane / N-Butane	68476-86-8	10-30
4 Dripless Base Compound	Mixture	7-13

EXPOSURE LIMITS

ITEM	ACGIH		OSHA	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING
1	50 ppm	N.E.	50	500 ppm
2	100 ppm	N.E.	100 ppm	500 ppm
3	800 ppm	N.E.	800 ppm	N.E.
4	N.E.	N.E.	N.E.	N.E.

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

EYE CONTACT: Liquid and vapors may be irritating and can cause pain, tearing, reddening and swelling.

SKIN CONTACT: Prolonged or repeated contact may result in irritation and/or dermatitis.

INHALATION: Prolonged inhalation may cause headaches, dizziness, nausea and drowsiness leading to unconsciousness.

INGESTION: This material may be harmful or fatal if swallowed.

CHRONIC HAZARDS: Overexposure may cause nervous system, pulmonary and kidney damage.

Primary Route(s) of Entry Inhalation, skin and eye contact or ingestion.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: Immediately flush with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: Get medical attention immediately. If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

MATERIAL SAFETY DATA SHEET

FLASH POINT: -156°F -104°C LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT: 9.5 %

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: Water fog, dry chemical, CO₂, foam, and alcohol foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Container(s) may explode and cause injury or death. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue and can be dangerous. Do not expose container to heat, flame, sparks or other sources of ignition.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective gear. Water spray may be utilized to cool containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

RECOVERY PROCEDURES: Absorb spill with inert material then place in a chemical waste container.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling

STORAGE: Keep away from heat, sparks, and flame.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in well ventilated area. Local exhaust could be utilized to remove fumes.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed, however, if high vapor concentration should develop, use a NIOSH approved organic vapor respirator.

SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

OTHER PROTECTIVE EQUIPMENT: Eye wash in work area.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	43 - 387°F 6 - 197°C	VAPOR DENSITY:	Is heavier than air
ODOR	Solvent	ODOR THRESHOLD	N.D.
APPEARANCE	Dark Gray	EVAPORATION RATE	Is faster than Butyl Acetate
SOLUBILITY IN H ₂ O	Negligible		
FREEZE POINT	N.D.	SPECIFIC GRAVITY	0.7139
VAPOR PRESSURE	80-90	pH @ 0.0%	N.A.
PHYSICAL STATE	Liquid, aerosol	VISCOSITY:	N.D.
COEFFICIENT OF WATER / OIL DISTRIBUTION: Complete (See Section 16 for abbreviation legend)			

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Sources of ignition.

INCOMPATIBILITY: Strong acid or alkali, oxidizers and amines.

MATERIAL SAFETY DATA SHEET

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT LD-50 >5000 mg/kg PRODUCT LC-50 >5500 ppm

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
N - Hexane	28710 mg/kg/rat	150000 mg/m ³ /mouse
Stoddard Solvent	>5000 mg/kg/rat	>5500 mg/m ³ /4h/rat
Propane / Isobutane / N-Butane	N.E.	658000 mg/m ³ /4h/rat
Dripless Base Compound	N.E.	N.E.
Graphite	N.E.	N.E.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME Aerosol - Consumer Commodity
 DOT TECHNICAL NAME ORM-D
 DOT HAZARD CLASS 2 HAZARD SUBCLASS: 2.1
 DOT UN / NA NUMBER: UN1950 PACKING GROUP: NA RESP. GUIDE PAGE 126

SECTION 15 - REGULATORY INFORMATION

U.S FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 cfr 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD
 PRESSURIZED GAS HAZARD

SARA SECTION 313

This product contains the following substance subject to the reporting requirements of Section 313 of Title of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT /WT % IS LESS THAN
n-hexane	110-54-3	40.0 %

MATERIAL SAFETY DATA SHEET

TOXIC SUBSTANCE CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
Stoddard Solvent	8052-41-3

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
No non-hazardous materials are among the top five ingredients.	

PENNSYLVANIA RIGHT-TO-Know

The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%	

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are know to the state of California to causes cancer, birth defects or other reproductive harm.

CHEMICAL NAME	CAS NUMBER
No Proposition 65 chemicals exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS:	Health	2	Flammability	4	Phys. Haz.	0	PPE	A
NFPA	Health	2	Flammability	4	Reactivity	0		

VOLATILE ORGANIC COMPOUNDS (VOCs): 5.05 lbs / gal 605 grams / liter

LEGEND:	N.A.	Not Applicable	N.E.	Not Established
	N.D.	Not Determined		

Disclaimer: The information contained herein is base on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product:	LE-4, LE-18, LE-20, LEC-4, LEK-4, LEK-4C, LEK-4SP LE-4BK (765-1382)	Trade Name:	Lock - Ease
Manufacturer:	AGS Company	Common Name:	Lock Lubricant
Street Address:	2651 Hoyt St		
City/State/Zip	Muskegon Hts., MI 49444		
Phone:	800-253-0403		
Phone:	231-733-2101		
FAX:	231-733-1784	Original Issue Date:	11/12/1985
Transportation Emergency	CHEM-TEL	Revision No	13
Phone:	800-255-3924	Date	1/30/2007

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

ITEM		CAS NUMBER	WT/WT %
1	Stoddard Solvent	8052-41-3	60-100
2	Dripless Base Compound	Mixture	7-13
3	Graphite	7782-42-5	0.1-1

EXPOSURE LIMITS

ITEM	ACGIH		OSHA	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING
1	100 ppm	N.E.	100 ppm	500 ppm
2	N.E.	N.E.	N.E.	N.E.
3	2 mg/m ³	N.E.	15 mppcf	N.E.

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

EYE CONTACT: Liquid and vapors may be irritating and can cause pain, tearing, reddening and swelling.

SKIN CONTACT: Prolonged or repeated contact may result in irritation and/or dermatitis.

INHALATION: Prolonged inhalation may cause headaches, dizziness and nausea.

INGESTION: This material may be harmful or fatal if swallowed.

CHRONIC HAZARDS: Overexposure may cause nervous system, pulmonary and kidney damage.

Primary Route(s) of Entry Skin and eye contact or ingestion.

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SKIN CONTACT: Immediately flush with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: Get medical attention immediately. If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

MATERIAL SAFETY DATA SHEET
SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 101°F 38°C LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT: 6 %

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: Water fog, dry chemical, CO₂, foam, and alcohol foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Container(s) may explode and cause injury or death. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue and can be dangerous. Do not expose container to heat, flame, sparks or other sources of ignition.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective gear. Water spray may be utilized to cool containers.

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RECOVERY PROCEDURES: Absorb spill with inert material then place in a chemical waste container.

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HANDLING: Wash thoroughly after handling

STORAGE: Keep away from heat, sparks, and flame.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in well ventilated area. Local exhaust could be utilized to remove fumes.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed, however, if high vapor concentration should develop, use a NIOSH approved organic vapor respirator.

SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

OTHER PROTECTIVE EQUIPMENT: Eye wash in work area.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	312 - 387°F 156 - 197°C	VAPOR DENSITY:	Is heavier than air
ODOR	Solvent	ODOR THRESHOLD	N.D.
APPEARANCE	Dark Gray	EVAPORATION RATE	Is slower than Butyl Acetate
SOLUBILITY IN H ₂ O	Negligible		
FREEZE POINT	N.D.	SPECIFIC GRAVITY	0.7963
VAPOR PRESSURE	1-5	pH @ 0.0%	N.A.
PHYSICAL STATE	Liquid	VISCOSITY:	N.D.
COEFFICIENT OF WATER / OIL DISTRIBUTION: Negligible			
(See Section 16 for abbreviation legend)			

MATERIAL SAFETY DATA SHEET
SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Sources of ignition.

INCOMPATIBILITY: Strong acid or alkali, oxidizers and amines.

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

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COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
Stoddard Solvent	>5000 mg/kg/rat	>5500 mg/m ³ /4h/rat
Dripless Base Compound	N.E.	N.E.
Graphite	N.E.	N.E.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME Consumer Commodity

DOT TECHNICAL NAME Combustible Liquid, n.o.s.

DOT HAZARD CLASS 3 HAZARD SUBCLASS: 3.3

UN / NA NUMBER: NA 1993 PACKING GROUP: III RESP. GUIDE PAGE N.D.

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MATERIAL SAFETY DATA SHEET

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INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: Class B Division 3: Combustible Liquid
 Class D Division 2 Subdivision B: Toxic Material
 WHMIS LABEL: Packaged under Consumer Chemicals and Container Regulations.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS:	Health	0	Flammability	2	Phys. Haz.	0	PPE	A
NFPA	Health	0	Flammability	2	Reactivity	0		

VOLATILE ORGANIC COMPOUNDS (VOCs): 5.74 lbs / gal 687 grams / liter

LEGEND: N.A. Not Applicable N.E. Not Established
 N.D. Not Determined

Disclaimer: The information contained herein is base on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.