

MATERIAL SAFETY DATA SHEET

John Deere Silver Grade Anti-Seize PM34306
 34306

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: John Deere Silver Grade Anti-Seize PM34306
 Item No.: 34306
 Product Type: Aerosol lubricant

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Light aromatic solvent naphtha	64742-95-6	35-50
Mineral oil	64742-52-5	15-25
Liquified petroleum propellant	68476-86-8	15-25
Graphite	7782-42-5	5-15
ALUMINUM	7429-90-5	5-15
COPPER*	7440-50-8	5-10
PETROLEUM DISTILLATE	64741-44-2	1-5
Mineral oil, petroleum distillates	64742-53-6	1-5

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Light aromatic solvent naphtha	None	None	50ppm
Mineral oil	5 mg/m3 mist	5 mg/m3 mist	None
Liquified petroleum propellant	None	None	1000 ppm 1800 mg/m3
Graphite	2 mg/m3 resp	15 mg/m3 total 5 mg/m3 resp	None
ALUMINUM	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 respir.	None
COPPER	1 mg/m3 dust	1 mg/m3 dust	None
PETROLEUM DISTILLATE	5mg/m3 TWA mist	5mg/m3 TWA mist	None
Mineral oil, petroleum distillates	5 mg/m3 mist	5 mg/m3 mist	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
Mineral oil	10 mg/m3 mist	None	
PETROLEUM DISTILLATE	10 mg/m3 mist	None	
Mineral oil, petroleum distillates	10 mg/m3 mist	None	

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3. HAZARDS IDENTIFICATION

Toxicity: May irritate eyes or skin. Vapors or direct contact may irritate or burn nose and throat. Swallowing may irritate digestive tract and cause nervous system depression. Prolonged skin contact with copper may cause sensitization dermatitis. Copper dusts and mists are eye and mucous membrane irritants and skin sensitizers. Swallowing copper compounds may cause vomiting and collapse. Target organs include respiratory system, nasal septum, skin, eyes, gastrointestinal system, kidneys, liver, and cardiovascular system. Direct spray or vapors will irritate and may harm eyes.

Primary Routes of Entry: Ingestion, inhalation, skin and eye contact.

Signs and Symptoms of Exposure: May cause skin or eye irritation with prolonged or repeated contact. Metal-fume fever, metallic taste, discoloration of skin or hair may indicate exposure to copper. Hemolysis, jaundice, anuria, hypotension, and convulsions may indicate acute copper poisoning.

Existing Conditions Aggravated by Exposure: Graphite powder: emphysema, asthma, and other respiratory problems.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Light aromatic solvent naphtha	IRR	NO	NO	NO
Mineral oil	IRR	NO	NO	NO
Liquified petroleum propellant	NR	NO	NO	NO
Graphite	LUN	NO	NO	NO
ALUMINUM	CNS IRR LUN	NO	NO	NO
COPPER	ALG BLO CNS DEV GAS IMM IRR KID LIV MUT SEN SKI	NO	NO	NO
PETROLEUM DISTILLATE	IRR	NO	NO	NO
Mineral oil, petroleum distillates	IRR	NO	NO	NO

Abbreviations

ALG Allergen
CNS Central nervous system
GAS Gastrointestinal
IRR Irritant
LIV Liver
BLO Blood
DEV Developmental
IMM Immune system
KID Kidney
LUN Lung

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3. HAZARDS IDENTIFICATION

(continued)

MUT Mutagen NR No Records
SEN Sensory SKI Skin

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Oil mist: Remove to fresh air. If symptoms persist, obtain medical attention. Apply artificial respiration if needed.
Skin Contact: Remove contaminated clothing and wash skin with soap and water. Get medical attention if persists.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Concentrate:
More than 200°F Method: Tag Closed Cup
Propellant: -156°F

Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Keep containers cool using water spray to avoid bursting. Use proper equipment to protect personnel from bursting containers.

Hazardous Products formed
by Fire or Thermal Decomp Metal vapors, oxides of carbon, nitrogen, barium, zinc, sulfur; hydrogen sulfide.

Unusual Fire or
Explosion Hazards: Contents under pressure. Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.

Explosive Limits:
(% by volume in air)Lower Aluminum metal: 30%
Gas oil: 1%
Propellant: 1.8%
(% by volume in air)Upper Aluminum metal: Unknown
Gas oil: 7%
Propellant: 9.5%

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6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove sources of ignition. Take up with an inert absorbent. Store in a closed chemical wastel container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Do not store near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Do not use near fire, sparks, or flame. Keep away from eyes. Avoid prolonged skin contact. Avoid prolonged breathing of vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Neoprene or oil resistant plastic gloves.
Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV.
Respiratory NIOSH/MSHA approved respirator if ventilation is inadequate.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey liquid
Odor: Petroleum
Boiling Point: Not available
pH: Does not apply
Solubility in Water: Insoluble
Specific Gravity: Not available
Volatile Organic Compound (EPA Method 24) 10.66% Base only)
Vapor Pressure: 70 psig at 70°F; 138 psi at 130°F
Vapor Density: Not available
Evaporation Rate (Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, alkalies, mineral acids, selected amines.

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10. STABILITY AND REACTIVITY (continued)

Conditions to Avoid: Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.

Hazardous Decomposition Products (non-thermal): Noxious carbon compounds, hydrogen.

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Transfer to disposal facility licensed to handle aerosols. Do not incinerate pressurized cans.

EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity
Hazard Class or Division: ORM-D
Identification Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Aerosols, flammable
Class or Division: Division 2.1
UN or ID Number: UN 1950

15. REGULATORY INFORMATION

CA Proposition 65: No Proposition 65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1
Fire Hazard: 4
Reactivity Hazard: 1

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16. OTHER INFORMATION

(continued)

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1*
Flammability Hazard: 4
Reactivity Hazards: 1
Personal Protection: See Section 8.

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