



# MATERIAL SAFETY DATA SHEET

CONFORMS TO REGULATION (EC) NO. 1907/2006

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## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the Substance/Preparation:** JAX MAGNA-KOTE 467 FG

**Part Number:** 46700

**Use of the Substance/Preparation:** Lubricant

**Company/Undertaking Identification:** JAX INC.  
W134 N5373 CAMPBELL DRIVE  
MENOMONEE FALLS, WI 53051 USA

**Non-Emergency Contact:** Phone: 1-800-782-8850 (North America) +01-262-781-8850 (International)  
Fax: 1-262-781-3906 (North America) +01-262-781-3906 (International)

**Emergency Contact (24-hour):** CHEMTREC: 1-800-424-9300 (North America) +01-703-527-3887 Collect (International)

## SECTION 2. HAZARDS IDENTIFICATION

**Classification:** This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Physicochemical Hazards:** Flammable

**Human Health Hazards:** See Section 11.

**Environmental Hazards:** No data available

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components listed below either meet the reporting requirements as specified in U.S. 29 CFR 1910.1200 or EU Directive 1999/45/EC as amended, or are reported for informational purposes only.

Ingredient	%	PEL/TLV, Source	CAS #	EINECS #	EU Hazard Symbol	R-Phrases*
Stoddard solvent	90-96	500 ppm, OSHA	8052-41-3	232-489-3	Xn	R65

\*See Section 16 for full text of R-Phrases.

## SECTION 4. FIRST AID MEASURES

**General Information:** Refer to specific forms of contact described below.

**Eye Contact:** Remove contact lenses, if wearing, and flush eyes gently with water while holding eyelids apart. If irritation persists or there is any visual difficulty, seek medical attention.

**Skin Contact:** Remove clothing and shoes, if contaminated. Wash skin with soap and water. Wash or clean contaminated clothing before reuse and discard oil-soaked shoes. If irritation persists, consult a physician.

**Ingestion:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.  
**Note to Physician:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against oral toxicity (see Section 11) when deciding whether to induce vomiting.

**Inhalation:** If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if coughing or respiratory discomfort occurs. If breathing is difficult, administer oxygen. If person is not breathing, begin artificial respiration. Keep person warm and quiet; seek immediate medical attention.

**Self-Protection of the First Aider:** First Aider: Pay attention to self-protection.

**EU Info to Physician** Refer to this section.

## SECTION 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Extinguishing media include dry chemical, foam, and carbon dioxide-type extinguishing agents. Do not use direct stream of water. Water may be used to keep fire-exposed containers cool.

**Unsuitable extinguishing media:** Do not use direct stream of water.

**Special Hazards:** If product is heated above its flash point, it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Use water spray to cool fire-exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes. Never use welding or cutting torch on or near drum (even if empty) because product (even just residue) can ignite explosively.

**Products of Combustion:** Carbon monoxide, carbon dioxide, and various hydrocarbons.

**Special Protective Equipment for:** Firefighters should wear full protective clothing, including helmet, and NIOSH-approved self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.

**Firefighters:****SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Extinguish all sources of ignition. Provide sufficient ventilation and/or respiratory protection. Wear appropriate protective clothing, gloves, face mask, goggles/glasses to prevent contact with the eyes and skin. See Section 8.

**Environmental Precautions:** Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.

**Methods for Clean-Up:** Recover free product using non-sparking tools. Add sand, earth, or other suitable absorbent material to the spill area. Dispose of in accordance with national and/or local regulations relating to waste disposal.

**SECTION 7. HANDLING AND STORAGE**

**Handling:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in this MSDS must be observed. Never use welding or cutting torch on or near drum (even if empty) because product (even just residue) can ignite explosively. All five-gallon pails and larger metal containers, including tank card and tank trucks, should be grounded and/or bonded when material is transferred. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.  
**WARNING:** Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Do not smoke while handling this product. For industrial use only.

**Storage:** Store in tightly sealed containers. Store in a cool, dry, well-ventilated area out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or where temperature may exceed 49°C (120°F). Avoid prolonged storage at elevated temperatures. Rotate stock.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational Exposure Limit:** See Section 2.

**Respiratory Protection:** Use with adequate ventilation. Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA-approved air-supplied respirator is advised in absence of proper environmental control.

**Ventilation:** Use in a well-ventilated area. See Engineering Controls.

**Hand Protection (Gloves):** Wear lined non-permeable rubber gloves.

**Eye Protection:** Chemical splash goggles or face shield are advised when eye contact may occur.

**Personal Hygiene:** Wash skin thoroughly after contact, before breaks and meals and at the end of work period. Do not smoke while using this product.

**Engineering Controls:** Good general ventilation should be sufficient to control vapors under ambient conditions. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>pH:</b>	N/A	<b>Partition Coefficient (n-octanol/water):</b>	N/A
<b>Boiling Point/Range:</b>	315-385°F (157-196°C)	<b>Viscosity:</b>	N/A
<b>Flash Point:</b>	108°F (42°C), ASTM D 56	<b>Vapor Density:</b>	North America: 4.8 (air = 1) European Union: 4,8 (air = 1)
<b>Upper Flammability Limit:</b>	N/A	<b>Evaporation Rate:</b>	N/A
<b>Lower Flammability Limit:</b>	N/A	<b>Percent Volatile:</b>	95
<b>Oxidizing Properties:</b>	Not an oxidizer	<b>Appearance/Odor:</b>	Clear, solvent-like fluid with slight solvent odor
<b>Vapor Pressure:</b>	2.7 mm Hg @ 68°F	<b>Physical State:</b>	Liquid
<b>Density:</b>	N/A		
<b>Solubility in Water:</b>	Insoluble		

**SECTION 10. STABILITY AND REACTIVITY**

**Conditions and Materials** Avoid heat, sparks, open flames and strong oxidizing agents. Avoid prolonged storage at elevated temperatures.

**to Avoid:****Hazardous Polymerization:** Hazardous polymerization will not occur.**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and various hydrocarbons.**SECTION 11. TOXICOLOGICAL INFORMATION****Routes of Entry:** Skin contact, eye contact, ingestion and inhalation.**Skin Toxicological Effects:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use. Preexisting disorders of the skin may be aggravated by exposure to this material.**Eye Toxicological Effects:** May cause slight irritation and redness. Symptoms include stinging, tearing and redness.**Ingestion Toxicological Effects:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury. Symptoms of overexposure to this material include stomach or intestinal upset (nausea, vomiting, diarrhea), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects.**Inhalation Toxicological Effects:** Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits (see Section 8). Symptoms of overexposure to this material include irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects. Preexisting disorders of the lung (for example, asthma-like conditions) may be aggravated by exposure to this material.

<b>Acute Toxicity / LD<sub>50</sub> and LC<sub>50</sub> of Ingredients:</b>	<b>Ingredient</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>		
	Stoddard solvent	Oral/Rat >5000 mg/kg	Inhalation/Rat = 8.5 g/m <sup>3</sup>		
<b>Chronic Toxicity / Carcinogenicity:</b>	<b>Ingredient</b>	<b>CAS #</b>	<b>NTP Known Carcinogen</b>	<b>NTP Anticipated Carcinogen</b>	<b>IARC Group</b>
	Stoddard solvent	8052-41-3	No	No	No

**SECTION 12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	N/A	<b>Bioaccumulative Potential:</b>	N/A
<b>Mobility:</b>	N/A	<b>Persistence and Degradability:</b>	N/A

**SECTION 13. DISPOSAL CONSIDERATIONS****Waste Disposal:** Consult national or regional authorities for proper disposal and reporting procedures. All disposals must comply with national and regional regulations.**SECTION 14. TRANSPORTATION INFORMATION**

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

**U.S. D.O.T.**

**Proper Shipping Name:** Petroleum distillates, n.o.s.  
**UN Number:** UN1268  
**Hazard Class:** 3  
**Packing Group:** III  
**Remarks:** This product may be reclassified as Combustible Liquid, n.o.s., NA1993, under U.S. DOT 49 CFR 173.150 when shipped via GROUND in non-bulk containers only. Refer to Code of Federal Regulations, Title 49 for further information.

**Land Transport ADR/RID**

**Proper Shipping Name:** Petroleum distillates, N.O.S.  
**UN Number:** UN1268  
**Hazard Class:** 3  
**Packing Group:** III



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**Maritime Transport IMDG**

**Proper Shipping Name:** Petroleum distillates, N.O.S. (aliphatic hydrocarbons)  
**IM Number:** IM1268

IMDG Code: 3  
Packing Group: III

**Air Transport IATA**

Proper Shipping Name: Petroleum distillates, N.O.S.  
UN Number: UN1268  
Hazard Class: 3  
Packing Group: III  
Remarks: N/A

**SECTION 15. REGULATORY INFORMATION****U.S. Federal Regulations**

**CERCLA:** Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 :  
None

**SARA (Section 313):** This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations:  
None

**SARA Extremely Hazardous List:** This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:  
None

**TSCA Inventory:** All components of this material are on the U.S. TSCA Inventory.

**State Regulations**

**California Proposition 65:** This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm:  
None

**Canada Regulations**

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all of the information required by the *CPR*.

**European Community Label Requirements**

**Danger Symbol(s):** Xn F



**S-Phrase(s):** S23: Do not breathe fumes  
S24: Avoid contact with skin  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

**R-Phrase(s):** R10: Flammable  
R44: Risk of explosion if heated under confinement  
R65: Harmful: may cause lung damage if swallowed

**National Regulations (Germany)**

**Water Hazard Class:** N/A

**SECTION 16. OTHER INFORMATION**

**Component R-Phrase(s)** R65: Harmful: may cause lung damage if swallowed

**HMIS® Ratings:** Health: **1** Fire: **2** Physical Hazard: **0**  
HMIS® Ratings: 0 = Minimal Hazard; 1 = Slight Hazard; 2 = Moderate Hazard; 3 = Serious Hazard; 4 = Severe Hazard

**Abbreviations that May Be Used in this Document:** N/A = Not available  
N/E = Not established

**Sections Revised:** Sections 9 and 14

**Revision Date:** 6/19/2009

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