

Safety Data Sheet



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product: Starting Fluid
CAS Registry Number: Not applicable for mixtures
Synonyms: Gard Starting Fluid
Product Type: Aerosol

Martin Lubricants;
A Division of Martin Operating Partnership L.P.
484 East 6th Street
Smackover, AR 71762
USA

Emergency: ChemTrec 800-424-9300
Information: 870-881-8700
Fax: 870-864-8656
www.martinlubricants.com

SECTION 2 HAZARDS IDENTIFICATION

WARNING: NONE REQUIRED

	NPCA-HMIS	KEY
HEALTH:	2	0 = Minimal
FIRE:	4	1 = Slight
REACTIVITY:	0	2 = Moderate
SPECIFIC HAZARD:	N/A	3 = Serious
PROTECTION INDEX:	B	4 = Severe

Precautionary Labels: NONE REQUIRED

Eye Contact: Moderate eye irritation: symptoms can include redness, swelling, pain, tearing and hazy vision.

Skin Contact: After prolonged or repeated contact, symptoms can include redness, swelling, blistering, itching and dryness. May be absorbed if prolonged and repeated contact can occur.

Inhalation: May be harmful or fatal if inhaled. Severely irritating and damaging to the central nervous system and to the lungs. Considered a narcotic at high concentrations. Can cause vertigo and in coordination. Respiratory irritation may occur in high concentrations and is capable of causing intoxication, drowsiness, stupor and unconsciousness. Vapors or mist may cause irritation to nose, throat, headache, nausea, vomiting, dizziness, drowsiness, euphoria, loss of coordination and disorientation. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.

Ingestion: Not likely as an aerosol but, if swallowed, it can be harmful or fatal. If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage.

Systemic And Other Effects Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%	ACGIH TWA	OSHA PEL	OSHA STEL	OTHER
Heptane	142-82-5	75-80	400 ppm	400 ppm	n/a	85 ppm (1)
Diethyl Ether	60-29-7	15-20	400 ppm	400 ppm	500 ppm	n/a

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Carbon Dioxide 124-38-9 3-4 5000 ppm 5000 ppm 15000 ppm n/a

There are no additional ingredients present which the current knowledge and in concentration applicable, are classified as hazardous to health or environment and hence require reporting in this section.

ABBREVIATIONS:

NE: None Established NA: Not Applicable (1): NIOSH Guidelines (2) "Manufacturer Recommendation"
Short Term Exposure Limit ND: Not Determined

SECTION 4 FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower eyelids. If irritation or other symptoms persist, call a physician.

Skin Contact: In case of contact, immediately wash skin with large amounts of soap and water. Remove contaminated clothing. If irritation is severe, call a physician immediately. Wash clothing before reuse. Destroy or properly dispose of contaminated shoes.

Inhalation: If inhaled, move person to non-contaminated air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately if symptoms persist.

Ingestion: Ingestion is not likely as an aerosol but, if ingested, **do not induce vomiting**. Never give anything by mouth to an unconscious person. Call a physician immediately. Keep victim on their left side, with their head down to prevent aspiration. Gastric lavage should be only considered by medical personnel following intubation with a cuffed endotracheal tube.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Min. -17.8°C (<0°F) by Cleveland Closed Cup, ASTM D 92

Upper Flammable Limit: 12.8%

Lower Flammable Limit: 1.0%

Extinguishing Media: Use dry chemical foam, alcohol foam or carbon dioxide

Special Fire Fighting Procedures: Wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition, if possible. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective clothing, including helmet. Ventilate area. Contain spill and dike, if possible. For leaks or spills that have not ignited, water spray can be used to disperse the flammable vapor and protect personnel attempting to stop the leak. Do not use direct stream of water because product will float and can be reignited on surface of water.

Unusual Fire and Explosion Hazards: Firefighters should wear SCBA's in a positive pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground away from handling site. Eliminate all sources of ignition as vapor may ignite. Carbon oxides may be formed.

By-products of Combustion: Not determined

Auto-ignition Temperature: Not determined

Explosion Data: Not determined. Care should always be exercised in dust/mist areas.



SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures (Land): Ventilate area, -especially low places where heavy vapors might collect. Extinguish all ignition sources. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Clean up residue. Place in an approved DOT container for disposal. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personnel protective equipment.

Spill Procedures (Water): Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities.

Waste Disposal Method: Reclaim by distillation if possible or remove to a permitted waste disposal facility in accordance with local, state and federal regulations.

Regulatory Information: Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, from the container, the user should determine if release is reportable.

SECTION 7 HANDLING AND STORAGE

Handling Procedures: Read label before using. Do not smoke when handling or using this product. Do not cut on empty containers as they may contain vapors that are flammable.

Storage Procedures: Store in tightly sealed containers. Keep away from heat, sparks & open flame. Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Do not store or transfer to an unmarked container. Do not store in direct sunlight. Store containers below 120°F.

Additional Information: No additional information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Full-face organic vapor and acid gas respirator, full-face supplied air respirator, full-face pressure demand self-contained breathing apparatus.

Eye Protection: Wear unvented goggles during operations in which exposure is likely. Wear full face shield.

Hand Protection: Any lined non-permeable rubber gloves like Buna-n or Nitrile®.

Other Protection: Non-permeable clothing to protect all skin from liquid contact.

Local Control Measures: Use with appropriate local exhaust ventilation. Provide appropriate local exhaust at transfer points. Provide appropriate local exhaust ventilation on open containers. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Other: Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash exposed areas thoroughly with soap and water.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 110 psig (Standard Temperature and Pressure, 25°C at 1 ATM)

Gravity by ASTM D 1298:

API Gravity n/a

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Specific Gravity @ 15.6°C	0.7000
Density @ 15.6°C	n/a
Solubility	Not soluble
Percent Volatile:	96.5% wt
Vapor Density, Air = 1:	Greater than
Evaporation Rate, n-Butyl Acetate = 1:	Faster than
Odor:	Ether like odor
Appearance:	Colorless liquid
Viscosity by ASTM D 445:	
cSt at 40°C (104°F)	n/a
cSt at 100°C (212°F)	n/a
Boiling Point:	64 –127°C (148 – 225°F)
Pour Point (°C): by ASTM D 97	n/a
Molecular Weight:	Not determined

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable, avoid open flames and high temperature (above 120°F) and direct sunlight.
Conditions To Avoid:	Avoid high temperatures and product contamination.
Incompatibility With Other Materials:	Strong oxidizers, selected amines, strong acids or bases.
Decomposition Products:	Carbon oxides can form on incomplete combustion.
Hazardous Polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral Toxicity:	Not determined
Dermal Toxicity:	Not determined
Inhalation Toxicity:	Not determined
Dermal Sensitization:	Prolonged or repeated contact may make skin more sensitive to other skin sensitizers. Based on data from similar materials.
Chronic Toxicity:	Not determined
Carcinogenicity:	Not determined
Mutagenicity:	Not determined
Reproductive Toxicity:	Not determined
Teratogenicity:	Not determined
Other:	Not determined

SECTION 12 ECOLOGICAL INFORMATION

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Environmental Toxicity: This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

Environmental Fate: Not determined

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Disposal Consideration: Place used, contaminated or excess material into disposable containers and dispose of in a manner consistent with local and state regulations. Contact local environmental or health authorities for approved disposal of this material. Most used oil is reclaimed or incinerated.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT Information

Bulk Shipping Description: Corrosive

Non-Bulk Shipping Description: ORM-D, Consumer Commodity

Identification Number: UN 1950

Hazard Classification: Aerosols, Corrosive, Packing Group II

Other: See 49 CFR for additional requirements for descriptions, allowed modes of transport and packaging. For more information concerning spills during transport, consult latest DOT Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

IMDG Information

Proper Description: Aerosols (Limited Quantity)

Hazard Class: 2.1

Hazard Sub-class: Not applicable

UN Number: UN 1950

Packaging Group: Not applicable

Marine Pollutant: No

IATA Information Not determined

SECTION 15 REGULATORY INFORMATION

Clean Water Act/Oil Pollution Act: Under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spills or discharges that produce a visible sheen or film on surface of water or in waterways, ditches or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.

TSCA: All components of this material are listed in the U.S. TSCA Inventory.

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Other TSCA:	Not applicable.		
SARA Title III:	Section 302/304	Extremely Hazardous Substances:	None
	Section 311/312	<u>Hazard Categorization:</u>	
		Acute (immediate health effects):	Yes
		Chronic (delayed health effects):	Yes
		Fire (hazard):	Yes
		Reactivity (hazard):	No
		Pressure (sudden release hazard):	Yes
	Section 313	Toxic Chemicals:	No
CERCLA:	For stationary sources - reportable quantity:		Not determined.
	Due to:		Not applicable.
	For moving sources - reportable quantity:		Not determined.
	Due to:		Not applicable.
	Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.		
California Prop. 65:	No		
Massachusetts Right To Know	Yes	Heptane Diethyl Ether Carbon Dioxide	
Pennsylvania Right To Know	Yes	Heptane Diethyl Ether Carbon Dioxide	
New Jersey Right To Know	Yes	Heptane Diethyl Ether Carbon Dioxide	

Note: Refer to Section 1 for composition concentration and CAS numbers.

SECTION 16 OTHER INFORMATION

Glossary: **ACGIH** – American Conference of Governmental Industrial Hygienists; **ANSI** – American National Standards Institute; **Canadian TDG** – Canadian Transportation of Dangerous Goods; **CAS** – Chemical Abstract Service; **Chemtrec** – Chemical Transportation Emergency Center (US); **CHIP** – Chemical Hazard Information and Packaging; **DSL** – Domestic Substances List; **EC** – Equivalent Concentration; **EH40 (UK)** – HSE Guidance Note EH40 Occupational Exposure Limits; **EPCRA** – Emergency Planning and Community Right-To-Know Act; **HMIS** – Hazardous Material Information Service; **LC** – Lethal Concentration; **LD** – Lethal Dose; **NFPA** – National Fire Protection Association; **OEL** – Occupational Exposure Limits; **OSHA** – Occupational Safety and Health Administration, US Department of Labor; **PEL** – Permissible Exposure Limit; **SARA (Title III)** – Superfund Amendments and Reauthorization Act; **SARA 313** – Superfund Amendments and Reauthorization Act, Section 313; **SCBA** – Self-Contained Breathing Apparatus; **STEL** – Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TSCA** – Toxic Substances Control Act Public Law 94-469; **TWA** – Time Weighted Value; **US DOT** – US Department of Transportation; **WHMIS** – Workplace Hazardous Materials Information System.

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This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Martin Lubricants; A Division of Martin Operating Partnership L.P., must rely upon information provided by the material manufacturers or distributors.

Prepared by: David Collins
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Safety Data Sheet conforms to ANSI Z400.1-2004 Standard - United States