Trade Name: Johnsens Premium Starting Fluid 50%

 MSDS NO.
 6732

 Revision Date:
 04/14/2009

 Date Printed
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Premium Starting Fluid 50%

Chemical Family: ETHER Synonyms: None

Emergency Telephone (24 hr.): 24-Hour Emergency Information: CHEMTREC (800) 424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Ethyl Ether 60-29-7	49-60	Not Listed	Not Listed	Not Listed
Heptane 142-82-5	20-30	Not Listed	Not Listed	Not Listed
Propane 74-98-6	5-15	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	2-10	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	2-10	Not Listed	Not Listed	Not Listed
Lubricating Oil 64742-52-5	.5-5	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Ethyl Ether	49-60	1200 mg/m ³ 400 ppm	1200 mg/m ³ 400 ppm	Not Listed
60-29-7				
Heptane	20-30	2000 mg/m ³ 500 ppm	1600 mg/m ³ 400 ppm	Not Listed
142-82-5				
Propane	5-15	1800 mg/m ³ 1000 ppm	1800 mg/m ³ 1000 ppm	Not Listed
74-98-6				
Carbon Dioxide	2-10	9000 mg/m ³ 5000 ppm	18000 mg/m ³ 10000 ppm	Not Listed
124-38-9				
Iso-Butane	2-10	Not Listed	Not Listed	Not Listed
75-28-5				
Lubricating Oil	.5-5	2000 mg/m ³ 500 ppm	1600 mg/m ³ 400 ppm	Not Listed
64742-52-5				

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Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Ethyl Ether 60-29-7	400 ppm	500 ppm	Not Listed
Heptane 142-82-5	400 ppm	500 ppm	Not Listed
Propane 74-98-6	1000 ppm	Not Listed	Not Listed
Carbon Dioxide 124-38-9	5000 ppm	30000 ppm	Not Listed
Iso-Butane 75-28-5	1000 ppm	Not Listed	Not Listed
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed

Other: This product contains trace amounts of (<15 ppm) of Butylated hydroxytoluene (BHT) as an inhibitor to prevent or reduce the formation of potentially explosive peroxides.

3. HAZARDS IDENTIFICATION

Emergency Overview: Danger: Extremely flammable. Breathing high concentrations of vapor or mist may cause nausea, vomiting,

central nervous system (CNS) depression and asphyxiation. Symptoms may include headache, diziness, blurred vision, slurred speech, memory loss, confusion, faigue, loss of consciousness, convulsions, paralysis, or coma. This material is irritating to skin, eyes and respiratory tract. Keep away from heat, sparks

and flame. Prolonged or repeated inhalation or ingestion may result in kidney and liver changes.

HMIS Classification: Health: *2 Flammability: 4 Physical Hazard: 2 **NFPA Rating:** Health: 2 Flammability: 4 Reactivity: 1

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes

and get medical attention immediately after flushing. Do not permit victim to rub eyes.

Ingestion: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give

anything by mouth to an unconscious person. Get medical attention! If vomiting occurs, keep head lower

than hips to prevent aspiration.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If

breathing is difficult give oxygen. Get medical attention.

Skin Contact: Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical

attention. Remove contaminated clothing and shoes, and launder before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): -76 F

Flash Point Method: TAG Closed Cup

Flammable Limits in Air - Lower (%):

Flammable Limits in Air - Upper (%):

Autoignition Temperature °F(°C):

1.2% (Lowest Component)
6.7% (Lowest Component)
356 F (Lowest Component)

Extinguishing Media: Dry chemical. Carbon dioxide. Alcohol foam. Use water spray to keep containers cool that are exposed to

heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may

cause flash fire. Fight from a maximum distance or use unmanned hose holders or monitor nozzles. Containers can build up pressure if exposed to heat; cool with flooding quantities of water until well after the fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of

vessel.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide.

Aerosol Comments: NFPA Level 3 Aerosol

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures:

Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.

Action to be taken if material is released or Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as spilled:

specified in the protective equipment section. Remove sources of ignition. Leaking containers should be

removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or

soak up in an inert material and put in a container intended for flammable materials for disposal.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or

streams.

7. HANDLING AND STORAGE

Handling and Storage: Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area.

Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cuase bursting. DO NOT store in the passenger compartment of an automobile. Store in a cool, dry place, out of

direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within

applicable limits.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Skin Protection: Avoid skin contact. Wear protective clothing and gloves.

Respiratory Protection: Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn

when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to pale yellow liquid

Odor:

PUNGENT SWEET

PH Value:

Not Determined

Vapor Pressure:

Vapor Density (Air=1):

Boiling Point (°F):

Melting/Freezing Point:

Solubility in Water:

PUNGENT SWEET

Not Determined

>1.5 Approximate

>44 F (Lowest Component)

Freezing -176F (Ether)

PARTLY SOLUBLE

Bulk Density at 20°C: Not Determined Molecular Weight: Not Determined

Specific Gravity (H20=1):

Viscosity:

Evaporation Rate:

VOC Content(%):

Decomposition Temperature:

Not Determined

Not determined.

Not determined.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Conditions to Avoid: Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at

temperatures above 120 F.

Materials to Avoid: Contact with oxidizing agents. Concentrated oxygen. Nitric acid. Avoid contact with chlorine in the presence

of light.

Hazardous Decomposition Products: Carbon monoxide. and other asphxiants. Explosive peroxides. Will react with nitric acid to form explosive

nitrates.

Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

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Component	Route	Species	Dose
Ethyl Ether	Inhalation	Mice	LC50 31000 ppm/30M
60-29-7			
Heptane	Inhalation	Rats	LC50 103 gm/m ³ /4H
142-82-5			
Propane	NA	NA	Not known.
74-98-6			
Carbon Dioxide	NA	NA	Not known.
124-38-9			
Iso-Butane	Inhalation	Rats	LC50 57 pph/15M
75-28-5			
Lubricating Oil	NA	NA	Not known.
64742-52-5			

Carcinogenicity:

Component	1450	NTD	20114
Ethyl Ether 60-29-7	IARC Not Listed	NTP Not Listed	OSHA Not Listed
Heptane 142-82-5	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	Not Listed	Not Listed	Not Listed
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Residues and spilled material are hazardous waste due to ignitability.

Waste Management: Not determined.

Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: Consumer Commodity

Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name:AerosolsHazard Class:2Hazard Subclass:2.1UN No.:UN 1950Packing Group:Not ApplicableMarine Pollutant:No

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15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ	
Ethyl Ether 60-29-7	Not Listed	Not Listed	Not Listed	Not Listed	
Heptane 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed	
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed	
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed	
Iso-Butane 75-28-5	Not Listed	Not Listed	Not Listed	Not Listed	
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed	Not Listed	

US OSHA HEALTH CLASSIFICATION:
SARA 311/312 Hazard Catagories:

Hazardous per OSHA 29 CFR 1910.1200 Immediate/Acute, Delayed/Chronic, Fire

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Ethyl Ether 60-29-7	Not Listed	Not Listed	Not Listed	Not Listed
Heptane 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	Not Listed	Not Listed	Not Listed	Not Listed
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed	Not Listed

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Component	New Jersey Right-to-Know List:
Ethyl Ether	Substance no. 0701
60-29-7	Substance no. 2422
00-23-1	Substance no. 2423
	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
Heptane	Substance no. 2422
142-82-5	Substance no. 2423
142-02-3	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
	Substance no. 1339
Propane	Substance no. 2422
74-98-6	Substance no. 2423
74-30-0	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
	Substance no. 1594
Carbon Dioxide	Substance no. 0343
124-38-9	
Iso-Butane	Substance no. 2422
75-28-5	Substance no. 2423
/ 5-26-5	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
	Substance no. 1040

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

Canadian Inventory: The components of this product are listed on the Canadian DSL or NDSL Inventory.

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes:

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.