MATERIAL SAFETY DATA SHEET

Effective Date: 5-21-04

Revision Date: none

Mac's Starting Fluid

Section 1 - Product and Company Identification

PRODUCT NAME: Mac's Starting Fluid

MANUFACTURER'S NAME:

Technical Chemical Corp.

EMERGENCY TELEPHONE NUMBER

(817)645-6088

P O BOX 139

CLEBURNE , TX 76033

MISCELLANEOUS INFORMATION

MATERIAL SAFETY DATA SHEET

Effective Date: 5-21-04

Revision Date: none

Mac's Starting Fluid

Section 1 - Product and Company Identification - Continued

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Starting Fluid 25%

MSDS NO. 6762

Revision Date: 03/28/2002 Date Printed 05/21/2004

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Starting Fluid 25%

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

Ingredient/CAS No.

wt. % OSHA PEL

AWT

OSHA PEL Ceiling Limits

ACGIH TLV

TWA

ACGIH TLW

STEL

Heptane

142-82-5 40-50 500 ppm: 2000

None Established 400 ppm: 1640 mg/m3 500 ppm

Ethyl Ether

60-29-7

23-30 400 ppm None Established 400 ppm 500 ppm

74-98-6 15-25 1000 ppm Not Known 2500 ppm Not Known

Carbon Dioxide

124-38-9

2-10 5000 ppm

(exposures <10,000

ppm to be cited de

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Not Known 5000 ppm 30,000 ppm
```

Iso-Butane

75-28-5

5-15 None Established None Established None Established Lubricating Oil

64742-52-5 0-5 Not known Mist 5 mg/m3 TLV Mist 5 mg/m3 8

HR.

Not Known

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

MATERIAL SAFETY DATA SHEET

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Mac's Starting Fluid

Section 1 - Product and Company Identification - Continued

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): <-10 F

Flash Point Method: TAG Closed Cup

Flammable Limits in Air - Lower (%): 1.2% (Lowest Component)

Flammable Limits in Air - Upper (%): 6.7% (Lowest Component)

Autoignition Temperature F(C): 356 F (Lowest Component)

Extinguishing Media: Dry chemical. Carbon dioxide. Alcohol foam. Use water

spray to keep containers cool that are

Trade Name: Johnsens Starting Fluid 25% MSDS NO. 6762

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exposed to heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure

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

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.

Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in

the protective equipment section. Remove sources of ignition. Leaking

MATERIAL SAFETY DATA SHEET

Effective Date: 5-21-04

Mac's Starting Fluid

Revision Date: none

Section 1 - Product and Company Identification - Continued

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, incenerate 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: Not Determined Vapor Density (Air=1): >1.5 Approximate Boiling Point (F): -44 F (Lowest Component) Melting/Freezing Point: Freezing -176F (Ether)

Solubility in Water: PARTLY SOLUBLE Bulk Density at 20C: Not Determined Molecular Weight: Mixture Evaporation Rate: Not Determined Viscosity: Not Determined. Specific Gravity (H20=1): Not Determined

VOC Content(%): Not determined. Decomposition Temperature: Not Determined

Part: 7216 Line: MAC Desc: START FL 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 Hazardous Polymerization: WILL NOT OCCUR 11. TOXICOLOGICAL INFORMATION Toxicological Data: Ingredient/CAS No. wt. % Route Species MATERIAL SAFETY DATA SHEET Effective Date: 5-21-04 Revision Date: none Mac's Starting Fluid Section 1 - Product and Company Identification - Continued

Dose Heptane 142-82-5 40-50 Inhalation Rats LC50 103 gm/m3/4H Ethyl Ether 60-29-7 23-30 Inhalation Mice LC50 31000 ppm/30M Propane 74-98-6 15-25 NA NA Not known. Carbon Dioxide 124-38-9 2-10 NA NA Not known. Iso-Butane 75-28-5 5-15 Inhalation Rats LC50 57 pph/15M Lubricating Oil 64742-52-5 0-5 NA NA Not known. Trade Name: Johnsens Starting Fluid 25% MSDS NO. 6762 Page 3 of 1 Carcinogenicity: Ingredient/CAS No. wt. 8 IARC NTP **OSHA** Heptane 142-82-5 40-50 Not Listed Not Listed Not Listed Ethyl Ether 60-29-7 23-30 Not Listed Not Listed Not Listed Propane 74-98-6 15-25 Not Listed Not Listed Not Listed Carbon Dioxide 124-38-9 2-10 Not Listed Not Listed Not Listed Iso-Butane 75-28-5 5-15 Not Listed Not Listed Not Listed Lubricating Oil

California Prop. 65 Developmental

Part: 7216 Line: MAC Desc: START FL

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12. ECOLOGICAL INFORMATION
 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 should be made in accordance with federal, state and local
 regulations.
 14. TRANSPORTATION INFORMATION
 U.S. DOT:
 Proper Shipping Name: Aerosols, flammable, n.o.s. (Engine Starting Fluid)
 Hazard Class: 2.1 (limited quantity)
 UN/NA Number: UN 1950
 DOT Packing Group: Not Determined
 IMDG:
 Proper Shipping Name: Aeroslols (Limited Quantity)
 Hazard Class: 2.1
 Hazard Subclass: Not determined.
 UN No.: UN 1950
 MATERIAL SAFETY DATA SHEET
 Effective Date: 5-21-04
                                                   Revision Date: none
                          Mac's Starting Fluid
 Section 1 - Product and Company Identification - Continued
 Packing Group: Not Determined
Marine Pollutant: No
 15. REGULATORY INFORMATION
US Federal Regulations:
Ingredient/CAS No.
wt. %
SARA 313
SARA 302
RQ
TPQ
Heptane
142-82-5 40-50 Not Listed Not Listed NA NA
Ethvl Ether
60-29-7 23-30 Not Listed Not Listed 100 lbs. NA
Propane
74-98-6 15-25 Not Listed Not Listed NA NA
Carbon Dioxide
124-38-9 2-10 Not Listed Not Listed NA NA
Iso-Butane
75-28-5 5-15 Not Listed Not Listed NA NA
Lubricating Oil
64742-52-5
0-5 Not Listed Not Listed NA NA
Trade Name: Johnsens Starting Fluid 25% MSDS NO. 6762
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Hazardous per OSHA 29 CFR 1910.1200
SARA 311/312 Hazard Catagories: Immediate/Acute, Delayed/Chronic, Fire
State Regulations:
Ingredient/CAS No.
Wt. 8
California Prop. 65
Cancer list
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California Prop. 65 Reproductive Female California Prop. 65 Reproductive Male Heptane

142-82-5 40-50 Not Listed Not Listed Not Listed Not Listed Ethyl Ether

60-29-7 23-30 Not Listed Not Listed Not Listed Not Listed Propane

74-98-6 15-25 Not Listed Not Listed Not Listed Not Listed Carbon Dioxide

124-38-9 2-10 Not Listed Not Listed Not Listed Not Listed Iso-Butane

75-28-5

5-15 Not Listed Not Listed Not Listed Not Listed Lubricating Oil

64742-52-5 0-5 Not Listed Not Listed Not Listed Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory. 16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach

MATERIAL SAFETY DATA SHEET

Mac's Starting Fluid

Effective Date: 5-21-04

Revision Date: none

Section 1 - Product and Company Identification - Continued

groundwater, bodies of water or sewer system. Disclaimer:

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*** End of Report ***