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TECHNICAL CHEMICAL COMPANY - Johnsens 50% Starting Fluid

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MATERIAL SAFETY DATA SHEET

Effective Date: 05/19/2003 Code: 6752 Johnsens 50% Starting

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Trade Name: Johnsens 50% Starting Fluid

Chemical Family: ETHER

Synonyms: None

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

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

TX 76033

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2. COMPOSITION/INFORMATION ON INGREDIENTS

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ACGIH TLW	Ingredient/CAS No.	wt. %	OSHA PEL	OSHA PEL	ACGIH TLV
STEL			TWA	Ceiling	TWA
500 ppm	Ethyl Ether	49-60	400 ppm	Limits None	400 ppm
None	60-29-7 Methyl Hexanes	10-20	None	Established None	None
Established	None		Established	Established	
Not Known	Propane	5-15	1000 ppm	Not Known	2500 ppm
500 ppm	74-98-6 Heptane	5-15	500 ppm	None	400 ppm
30000 ppm	142-82-5 Carbon Dioxide	2-10	2000 mg/m3 5000 ppm	Established Not Known	1640 mg/m3 5000 ppm
	124-38-9		(exposures <10000 ppm to be cited de minimus)		
None	Iso-Butane	2-10	None	None	None
Established	72-28-5		Established	Established	Established
None	Dimethyl Pentanes	1-5	None	None	None
Established	None		Established	Established	Established
None	Dimethyl Cyclopentanes	.1-3	None	None	None
Established	None		Established	Established	Established
Not Known	B200 Base Oil	.5-5	Not Known	Mist	TLV Mist
hr	64742-52-5			5 mg/m3	5 mg/m3 8
hydroxytoluene	This product contains trace amounts of (<15 ppm) of Butylated				
potentially	(BHT) as an inhibitor to prevent or reduce the formation of				
	explosive peroxides.				

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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, dizziness, blurred vision, slurred speech, memory loss, confusion, fatigue, 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.

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.

Ingestion: Do not permit victim to rub eyes. If swallowed, call a physician immediately. 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 deg.F(deg.C):	-76 F
Flash Point Method:	TAG Closed Cup
Flammable Limits in Air - Lower (%):	1.2% (Lowest Component)
Flammable Limits in Air - Upper (%):	3.4% (Lowest Component)
Autoignition Temperature deg.F(deg.C):	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.

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Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-

pressure self-

apparatus and

Vapor may cause

maximum

hose holders

Containers can

exposed to heat;

quantities of water

is out.

case of rising

devices or

Monoxide.

Hazardous Combustion Products:

Aerosol Comments:

Wear approved positive-

contained breathing

protective clothing.

flash fire. Fight from a

distance or use unmanned

or monitor nozzles.

build up pressure if

cool with flooding

until well after the fire

Withdraw immediately in

sound from venting safety

discoloration of vessel.

Carbon Dioxide. Carbon

NFPA Level 3 Aerosol

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6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions: Wear appropriate protective clothing

and equipment

to prevent skin and eye contact.

containers. Avoid

Contain any liquid from leaking

and open

all sources of ignition; heat, sparks

container.

flames. Do not puncture or incinerate

protective

Contents under pressure. Wear proper

protective equipment

equipment as specified in the

Leaking

section. Remove sources of ignition.

isolated, well-

containers should be removed to an

other suitable

ventilated area and transferred to

in an inert

containers. Wipe, scrape, or soak up

intended for

material and put in a container

flammable materials for disposal.

drains, sewer or

Environmental Precautions: Do not allow to enter sanitary

out of lakes,

surface and subsurface waters. Keep

ponds or streams.

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7. HANDLING AND STORAGE

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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
contact with
incinerate or store
temperatures may cause
compartment of
place, out of

concentration, leave area at once. Avoid
skin and eyes. Do not puncture,
above 120 F. Exposure to high
bursting. DO NOT store in the passenger
an automobile. Store in a cool, dry
direct sunlight.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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exhaust	Engineering Controls:	Use in a well ventilated area. Local ventilation as necessary to maintain within applicable limits.
exposures to	Eyes:	Chemical goggles; also wear a face shield if
shield if	Skin Protection:	splashing hazard exists. Avoid skin contact. Wear protective clothing and
clothing and	Respiratory Protection:	gloves. Do not breath mist or vapor. Use in a well ventilated
well ventilated		area. Appropriate respiratory protection shall be
protection shall be		worn when applied engineering controls are not
are not		adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

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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 (deg.F):	-44 F (Lowest Component)
Melting/Freezing Point:	Freezing -176 F (Ether)
Solubility in Water:	Partly Soluble
Bulk Density at 20 deg.C:	Not Determined
Molecular Weight:	Mixture
Evaporation Rate:	Not Determined
Viscosity:	Not Determined
Specific Gravity (H2O=1):	Not Determined
VOC Content(%):	Not Determined
Decomposition Temperature:	Not Determined

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10. STABILITY AND REACTIVITY

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handling	Chemical Stability:	Stable under normal conditions of use, and transportation.
flame. Avoid any	Conditions to Avoid:	Keep away from heat, sparks and source of ignition. Do not expose to heat or
to heat or	Materials to Avoid:	store at temperatures above 120 F. Contact with oxidizing agents. oxygen. Nitric acid. Avoid contact with chlorine
Concentrated		in the presence of light.

asphyxiants. Explosive
acid to form

Hazardous Decomposition
Products:Carbon monoxide and other
peroxides. Will react with nitric
explosive nitrates.
WILL NOT OCCUR

Hazardous Polymerization:

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11. TOXICOLOGICAL INFORMATION

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Toxicological Data:					
	Ingredient/CAS No.	wt. %	Route	Species	Dose
31000 ppm/30M	Ethyl Ether	49-60	Inhalation	Mice	LC50
Known	60-29-7 Methyl Hexanes	10-20	NA	NA	Not
Known	None Propane	5-15	NA	NA	Not
103 gm/m3/4H	74-98-6 Heptane	5-15	Inhalation	Rats	LC50
Known	142-82-5 Carbon Dioxide	2-10	NA	NA	Not
57 pph/15M	124-38-9 Iso-Butane	2-10	Inhalation	Rats	LC50
Known	75-28-5 Dimethyl Pentanes	1-5	NA	NA	Not
Known	None Dimethyl Cyclopentanes	.1-3	NA	NA	Not
Known	None B200 Base Oil	.5-5	NA	NA	Not
	64742-52-5				
Carcinogenicity:					
	Ingredient/CAS No.	wt. %	IARC	NTP	
OSHA	Ethyl Ether	49-60	Not Listed	Not Listed	
Not Listed	60-29-7 Methyl Hexanes	10-20	Not Listed	Not Listed	
Not Listed	None Propane	5-15	Not Listed	Not Listed	
Not Listed	74-98-6 Heptane	5-15	Not Listed	Not Listed	
Not Listed	142-82-5 Carbon Dioxide	2-10	Not Listed	Not Listed	
Not Listed	124-38-9 Iso-Butane	2-10	Not Listed	Not Listed	
Not Listed	75-28-5 Dimethyl Pentanes	1-5	Not Listed	Not Listed	
Not Listed	None Dimethyl Cyclopentanes	.1-3	Not Listed	Not Listed	
	None B200 Base Oil	.5-5	Not Listed	Not Listed	

Not Listed

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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: Consumer Commodity
Hazard Class: ORMD
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable
IMDG:
Proper Shipping Name: Aerosols (Limited Quantity)
Hazard Class: 2.1
Hazard Subclass: Not determined
UN No.: UN1950
Packing Group: Not Determined
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

RQ	TPQ	Ingredient/CAS No.	wt. %	SARA 313	SARA 302
100 lbs	NA	Ethyl Ether	49-60	Not Listed	Not Listed
NA	NA	60-29-7 Methyl Hexanes	10-20	Not Known	Not Known
NA	NA	None Propane	5-15	Not Listed	Not Listed
NA	NA	74-98-6 Heptane	5-15	Not Listed	Not Listed
NA	NA	142-82-5 Carbon Dioxide	2-10	Not Listed	Not Listed
NA	NA	124-38-9 Iso-Butane	2-10	Not Listed	Not Listed
NA	NA	75-28-5 Dimethyl Pentanes	1-5	Not Known	Not Known
NA	NA	None Dimethyl Cyclopentanes	.1-3	Not Known	Not Known
NA	NA	None B200 Base Oil	.5-5	Not Listed	Not Listed

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Hazardous per OSHA 29 CFR 1910.1200

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Delayed/Chronic, Fire

SARA 311/312 Hazard Catagories: Immediate/Acute,

State Regulations:

California	Ingredient/CAS No.	wt. %	California	California	California
Prop. 65			Prop. 65	Prop. 65	Prop. 65
Reproductive			Cancer	Developmental	Reproductive
Male			List	Toxicity	Female
Not Listed	Ethyl Ether		49-60	Not Listed	Not Listed
Not Listed	60-29-7 Methyl Hexanes		10-20	Not Listed	Not Listed
Not Listed	None Propane		5-15	Not Listed	Not Listed
Not Listed	74-98-6 Heptane		5-15	Not Listed	Not Listed
Not Listed	142-82-5 Carbon Dioxide		2-10	Not Listed	Not Listed
Not Listed	124-38-9 Iso-Butane		2-10	Not Listed	Not Listed
Not Listed	75-28-5 Dimethyl Pentanes		1-5	Not Listed	Not Listed
Not Listed	None Dimethyl Cyclopentanes		.1-3	Not Listed	Not Listed
Not Listed	None B200 Base Oil		.5-5	Not Listed	Not Listed

64742-52-5

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

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quantities to reach

16. OTHER INFORMATION

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upon tests

General Notes: Do not allow undiluted material or large

does not

groundwater, bodies of water or sewer system.

INFORMATION

Disclaimer:

SAFETY OF THE

The information and recommendations contained herein are based

GOODS FOR A

believed to be reliable. However, Technical Chemical Company

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