



Material Safety Data Sheet

Revision Date

07-Jun-2005

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 81579
 Product name Kwik Start Starting Fluid
 Recommended Use Lubricant

Supplier Lawson Products, Inc.
 1666 East Touhy Avenue
 Des Plaines, IL 60018
 (847)-827-9666

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Flammable. Irritant. May be harmful if swallowed.

Aggravated Medical Conditions

None Known.

Principal Routes of Exposure

Skin. Inhalation. Ingestion.

Potential health effects

Eyes Irritation.

Skin Skin Irritation.

Inhalation Dizziness. Possible unconsciousness.

Ingestion Nausea.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Carbon Dioxide	124-38-9	3-7
Ethyl ether	60-29-7	10-30
Heptanes	142-82-5	60-100

4. FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash area thoroughly with soap and water. If skin irritation persists, call a physician.

Ingestion Do not induce vomiting. Consult a physician.

Inhalation Remove to fresh air. Consult a physician.

5. FIRE FIGHTING MEASURES

Flash point °C < -17
Flash point °F < 0
Method Tag closed cup

Autoignition temperature

Autoignition temperature °C No data available
Autoignition temperature °F

Flammability Limits (% in Air)

Upper 36.0
Lower 1.0

Specific Information for Aerosol Products

Flame extension >18"
Flashback Unknown

Suitable extinguishing media

Dry chemical. Alcohol foam. Carbon dioxide (CO₂).

Extinguishing media which must NOT be used for safety reasons

No information available.

Special protective equipment for firefighters

No information available.

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Water spray may be ineffective. If water is used, fog nozzles are preferable.

Hazardous decomposition products

See Section 10

Fire and Explosion Hazards

Evacuate area of unprotected and unnecessary personnel. Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Eliminate all sources of ignition. Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Dike or dam large spills. Soak up excess with absorbent material. Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE**Handling**

Direct spray away from face. Keep away from open flame. Keep from excessive heat. Do not reuse containers. Do not inhale dusts. Wear personal protective equipment.

Storage

Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Store in temperatures below 120 degrees F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Heptanes	2000 mg/m ³ 500 ppm	-	400 ppm	500 ppm
Ethyl ether	1200 mg/m ³ 400 ppm	-	400 ppm	500 ppm
Carbon Dioxide	5000 ppm exposures < 10,000 ppm to be cited de minimus 9000 mg/m ³	-	5000 ppm	30000 ppm

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, or both, to keep below the TLV's in the worker's breathing zone and the general area.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Protection provided by air purifying respirators is limited. Wear a self-contained breathing apparatus (SCBA), where exposure levels are not known.

Hand protection

Butyl rubber gloves.

Eye protection

ANSI approved safety goggles are recommended if exposure is likely.

Skin and body protection

Chemical resistant apron.

Other Protective Equipment

Chemically resistant boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	Ether-like
Odor Threshold	No information available
pH	No data available
Specific Gravity	0.70
Boiling point/range °C	> 65
Boiling point/range °F	> 150
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	< -17
Flash point °F	< 0
Vapor pressure	40 mmHg
Vapor density	>Air
Evaporation Rate	Rapid
Water solubility	No data available
Partition Coefficient (n-octanol/water)	No data available

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Temperatures above 120°C.

Materials to avoid

Strong oxidizers. Selected amines. Incompatible with strong acids and bases.

Hazardous decomposition products

Carbon oxides.

Polymerization

Will not occur.

Synergistic Products

No information available.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Heptanes</i> 142-82-5	-	-	103 g/m ³
<i>Ethyl ether</i> 60-29-7	1215 mg/kg	20 mL/kg	-
<i>Carbon Dioxide</i> 124-38-9	-	-	-

Potential health effects

Sensitization No information available.

Chronic toxicity No information available.

Mutagenic effects No information available.

Teratogenic effects No information available.

Reproductive toxicity No information available**Target Organ Effects** No information available**Carcinogenic effects**
See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Heptanes	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl ether	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION**Aquatic toxicity**Ethyl ether**Microtox Data***Photobacterium phosphoreum EC50=5623 mg/L (15 min)***13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION**DOT** Consumer commodity ,ORM-D,**TDG**

AEROSOLS, Class 2.1,UN1950,PG

IMDG/IMO

Aerosols,UN1950,PG

IATA

Aerosols, flammable,UN1950

MEX

UN1950 Aerosols,2.2,

15. REGULATORY INFORMATION**State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Heptanes	Listed	Listed	Not Listed
Ethyl ether	Listed	Listed	Not Listed
Carbon Dioxide	Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Heptanes	X	X	-	X
Ethyl ether	X	X	-	X
Carbon Dioxide	X	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION**NFPA****Health** 2
Flammability 4
Reactivity 0**HMIS****Health** - 2
Flammability - 4
Physical Hazard - 0**Reason for revision**

No information available.

Prepared By

T. Heidorn, MSDS Project Lead

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.