

Material Safety Data Sheet

ENGINE STARTING FLUID (AEROSOL)

QUICK IDENTIFIER
Common Name: (used on label and list)

K & W STOCK # 4011 and 4015

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

NFPA rating H-1, F-4, R-0

SECTION 1 -

Manufacturer's Name K & W PRODUCTS

Address 5801 S. EASTERN AVENUE

Emergency Telephone No. 213-720-4680

City, State, and ZIP CITY OF COMMERCE, CA 90040

Other Information Calls

Signature of Person Responsible for Preparation (Optional) Pat Patel

Date Prepared 11-25-85 (revised 5/12/88)

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
Unrefined Diethyl Ether		400			60-29-7
N-heptane		500			142-82-5
Carbon dioxide		5000			124-38-9

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	0.684	Vapor Pressure (mm Hg)	130 Psig
	Heavier than air	Vapor Density (Air = 1)			
Solubility in Water	Negligible	Reactivity in Water	N/A		
Appearance and Odor	Clear to slight straw liquid with distinct ether odor.	Melting Point	N/A		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	-40°F	Method Used	TOC	Flammable Limits in Air % by Volume	LEL Lower	UEL Upper	See section 2
Auto-Ignition Temperature		Extinguisher Media	Foam, CO ₂ , dry chemical or halon				
Special Fire Fighting Procedures	Keep containers cool. Use equipment or shielding required to protect personnel against bursting, rupturing or venting containers.						
Unusual Fire and Explosion Hazards	At elevated temperature above 120°F container may burst.						

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability Unstable Stable Conditions to Avoid

Incompatibility (Materials to Avoid) Strong acids

Hazardous Decomposition Products Carbon dioxide and/or carbon monoxide

Hazardous Polymerization May Occur Will Not Occur Conditions to Avoid

SECTION 6 - HEALTH HAZARDS

1. Acute 2. Chronic

Signs and Symptoms of Exposure May cause dizziness, light headache, nausea, defatting of skin, dermatitis, irritation.

Medical Conditions Generally Aggravated by Exposure See above

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program Yes No I.A.R.C. Monographs Yes No OSHA Yes No

Emergency and First Aid Procedures

ROUTES OF ENTRY	1. Inhalation	<u>If unconscious, remove victim to fresh air and call phusician.</u>
	2. Eyes	<u>Flush with large amount of water.</u>
	3. Skin	<u>Wash with soap and water.</u>
	4. Ingestion	<u>Do not induce vomiting. Seek immediate medical attention.</u>

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Extremely flammable. Use only in well ventilated areas. Do not use near open flame or other ignition sources. Store in cool dry place.

Other Precautions Avoid breathing vapors. Avoid spraying into eyes and onto skin. Do not store above 120°F.

Steps to be Taken in Case Material is Released or Spilled Avoid breathing vapors. Remove ignition sources. Avoid skin contact. Use absorbent material.

Waste Disposal Methods (Consult federal, state, and local regulations) Do not puncture or incinerate containers. Dispose of empty containers as per governmental regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) N/A

Ventilation N/A Local Exhaust Mechanical (General) Special Other Should only be used outdoors.

Protective Gloves N/A Eye Protection N/A

Other Protective Clothing or Equipment N/A

Work/Hygienic Practices Avoid breathing vapors. Avoid skin contact.

IMPORTANT
Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.