

HMIS RATING	
Health	N/A
Flammability	N/A
Reactivity	N/A

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	1
Flammability	4
Reactivity	0
NFPA 30B LEVEL	
N/A	

KIMBALL-MIDWEST
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1. PRODUCT IDENTIFICATION

PART NUMBER 80-600
PRODUCT NAME Starting Fluid
CHEMICAL FAMILY N/A
DOT SHIPPING DOT Hazard-combustible. Engine Starting Fluid, 2.1, UN 1960

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Heptane (142-82-5)	400ppm	400ppm	500ppm	69-79
Ethyl Ether (60-29-7)	-	-	-	11-21
Carbon Dioxide (124-38-9)	10000ppm	5000ppm	3000ppm	1-11
			Asphyxiant	
*n-Hexane (110-54-3)	50ppm	50ppm	100ppm	2.8
Heptane 8 hr. TWA, 85ppm; Hexane 8 hr. TWA, 100ppm				

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

3. PHYSICAL DATA

BOILING POINT (RANGE) 94°F
VAPOR PRESSURE mmHg @ 68°F 439
VAPOR DENSITY (AIR = 1) >1
SOLUBILITY IN WATER N/A
SPECIFIC GRAVITY (H₂O = 1) 0.773
MELTING/FREEZING POINT N/A
EVAPORATION RATE (Butyl Acetate=1) >1
VOC content (by weight) 100%
APPEARANCE AND ODOR Clear liquid

4. FIRE AND EXPLOSION DATA

FLASH POINT N/A
UPPER EXPLOSIVE LIMIT (%) Not Established
LOWER EXPLOSIVE LIMIT (%) 1.0
EXTINGUISHING MEDIA Foam, CO₂, Dry chemical
SPECIAL FIREFIGHTING PROCEDURES Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment
FIRE AND EXPLOSION HAZARDS Never use welding equipment near containers (even empty) because product residue can ignite explosively
NFPA FLAMMABILITY HAZARD 4

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY Eyes, Inhalation, Skin
HEALTH HAZARDS (ACUTE AND CHRONIC) Irritation, dermatitis, defatting of the skin, dizziness, weakness, fatigue, nausea, headache, vomiting, diarrhea

5. HEALTH EFFECTS DATA (CONT'D)

SIGNS & SYMPTOMS

OF EXPOSURE Eyes: Irritation, redness, burning; Skin: Irritation, defatting, dermatitis, Inhalation: Nasal and respiratory irritation, central nervous system effects including dizziness, fatigue, vomiting, unconsciousness, asphyxiation; Ingestion: Nausea, vomiting, diarrhea, aspiration into lungs leading to chemical pneumonitis

MEDICAL CONDITIONS GENERALLY

AGGRAVATED BY EXPOSURE None known

FIRST AID PROCEDURES

EYES Flush with water for at least 15 minutes, contact a physician
SKIN CONTACT Wash with soap, large volumes of water; remove contaminated clothing and launder before wearing
INGESTION DO NOT INDUCE VOMITING; DO NOT LEAVE VICTIM UNATTENDED; aspiration of material into lungs can cause chemical pneumonitis which can be fatal, contact a physician
INHALATION Remove to fresh air; if breathing stops, administer artificial respiration and obtain immediate medical attention

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) Presently not on any lists

6. REACTIVITY

STABILITY Stable
INCOMPATIBILITIES Avoid contact with strong oxidizing agents, aldehydes, alkanols amines, amines, ammonia, chlorinated solvents, oxygen and strong bases

HAZARDOUS DECOMPOSITION

PRODUCTS CO₂, CO, various hydrocarbons

HAZARDOUS POLYMERIZATION Will not occur

HAZARDOUS POLYMERIZATION

CONDITIONS None known

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT

REQUIREMENTS Use NIOSH approved respirator when exposure limits are exceeded

WASH REQUIREMENTS Wash with soap and water

SPILL OR LEAK PROCEDURES Eliminate all ignition sources; ventilate area and allow to evaporate; use absorbent sweeping compound to soak up material

WASTE DISPOSAL METHODS Allow liquid to evaporate

HANDLING & STORAGE Store in cool, well-ventilated place; store below 120 °F; do not puncture or incinerate can

OTHER PRECAUTIONS None

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

KIMBALL MIDWEST

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