

DUPLICATING FLUID

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME..... STARKEY CHEMICAL PROCESS COMPANY  
 9600 W OGDEN AVE  
 LAGRANGE, IL 60525  
 1-800-323-3040  
 EMERGENCY PHONE NUMBER... 24 HOUR INFOTRAC 1-800-535-5053  
 RESELLER'S NAME.....  
 EFFECTIVE DATE..... n/a  
 REVISED DATE..... 12/22/93  
 PRODUCT IDENTIFIER..... DC1  
 TRADE NAME..... DUPLICATING FLUID HEYER  
 CHEMICAL FAMILY..... ALCOHOL

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	HAZARDOUS INGREDIENT PERCENT	TLV (Units)	HAZARDOUS INGREDIENT CAS/NA/UN NUMBERS
METHANOL*	99 %	200 ppm	CAS 67-56-1

SPECIAL... \*This chemical is subject to S.A.R.A. Title III section 313 part 372 reporting. VOC 95% 6.36#/GAL

SECTION III - PHYSICAL DATA

BOILING POINT..... 147°F  
 FREEZING POINT..... n/a  
 VOLATILITY/VOL(%)..... 100%  
 MELTING POINT..... liquid  
 VAPOUR PRESSURE..... 96 mm hg @ 68°F  
 VAPOUR DENSITY (air=1)... 1.11  
 SOLUBILITY IN H2O..... complete  
 ODOUR AND APPEARANCE.... Clear-colorless liquid; Characteristic alcohol odor  
 SPECIFIC GRAVITY..... .802  
 EVAPORATION RATE..... 2.0  
 PH..... n/a

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION..... 54°F Tag Closed Cup  
 Flammable Limit is volume % by air  
 LOWER EXPLOSION LIMIT(% BY VOL)..... 6.0  
 UPPER EXPLOSION LIMIT(% BY VOL)..... 36.0  
 MEANS OF EXTINCTION..... CO<sub>2</sub>, DRY CHEMICAL, ACOHOL-TYPE FOAM. DO NOT USE WATER STREAMS. THEY MAY SPLASH AND SPREAD FIRE.

MATERIAL SAFETY DATA SHEET

DUPLICATING FLUID

FOR FIRE..... Mixture introduces the potential of a Class 1B flammable liquid fire hazard. CO<sub>2</sub> or dry chemical extinguishers would provide a blanketing. Water fog may be used. Firefighters should wear a self-contained breathing apparatus.

EXPLOSION DATA..... Vapors are toxic. Vapors mixed with air within flammability concentration limits (6-36% by volume) are explosively ignited by any spark source. May burn with invisible flame.

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SECTION V - HEALTH HAZARD DATA

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ROUTES OF ENTRY

SKIN CONTACT	SKIN ABSORPTION	EYE	INHALATION	INGESTION
yes	yes	yes	yes	yes

ACUTE AND CHRONIC OVER EXPOSURE EFFECTS..... POISONOUS! Can affect body thru inhalation or skin. Ingestion can produce blindness. May prove fatal in amounts as small as 1-4 ounces. Prompt medical attention is essential.

CARCINOGENICITY, REPRODUCTIVE EFFECTS.... n/a

SYMPTOMS..... INHALATION: coughing, shortness of breath, dizziness, intoxication. EYES: moderate irritation, burning sensation, tearing, redness. SKIN: irritation, redness. INGESTION: dizziness, headache, nausea, vomiting.

SENSITIZATION TO MATERIAL Vapors may aggravate conditions such as emphysema and bronchitis.

SPECIFIC FIRST AID PROCEDURES..... IN CASE OF DISCOMFORT BY VAPORS, MOVE TO A VENTILATED AREA. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. GIVE OXYGEN. KEEP WARM AND CALL A PHYSICIAN. REMOVE PROMPTLY CONTAMINATED CLOTHES. WASH SKIN WITH SOAP AND WATER. IF INGESTED, GIVE PLENTY OF WATER. INDUCE VOMITING IF POSSIBLE. CALL A PHYSICIAN. IF AVAILABLE, ADMINISTER 1 TABLESPOON (1/2 OUNCE) IPECAC SYRUP WITH AT LEAST 1 CUP OF WATER FOR PERSONS ONE (1) YEAR OF AGE OR OLDER. FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. SPREAD EYELIDS WHILE FLUSHING.

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SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY..... stable

CONDITIONS OF REACTIVITY. heat, sparks, open flames, oxidizers

INCOMPATIBLE MATERIALS... Reacts vigorously with strong oxidizing, chromic anhydrides, lead perchlorates, and perchloric acids.

HAZARDOUS DECOMPOSITION PRODUCTS..... Incomplete combustion will generate carbon monoxide/carbon dioxide.

HAZARDOUS POLYMERIZATION. will not occur

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POLYMERIZATION AVOID..... n/a

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Eliminate all sources of ignition. Contain leak. Small leaks can be soaked up with absorbant material. Large leaks should be stopped at source and diluted with water. Leaking containers should be removed to outdoors or isolated, well-ventilated area.
WASTE DISPOSAL..... Facilities must be provided to control, collect and hold accidental spills for approved disposal and recovery. Do not allow to enter streams or sewers. Dispose of in accordance with all local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... For large quantities, use NIOSH/MSHA approved supplied air/self contained breathing apparatus.
VENTILATION..... Adequate ventilation must be provided to maintain concentrations below 200 ppm.
PROTECTIVE GLOVES..... vinyl or rubber if skin contact is unavoidable
EYE PROTECTION..... Use splash goggles or face shields. Contact lenses should not be worn.
OTHER PROTECTIVE EQUIPMENT..... Safety showers and eye wash stations should be readily available.
HANDLING PROCEDURES AND EQUIPMENT..... Keep away from heat or ignition sources including smoking materials. Use with adequate ventilation. Keep container properly closed. Container is hazardous when empty. Make sure container is properly labeled.

SECTION IX - SPECIAL PRECAUTIONS

Table with 4 columns: Hazard Class, DOT Shipping Name, UN Number, NA #, and HMIS (Health, Flammability, Reactivity, Personal Protection). Row 1: 3 (Flammable Liquid), 3, METHANOL SOLUTION, 1230, n/a. Row 2: 3, 3, 0, B.

OTHER.....

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