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STARKEY CHEMICAL PROCESS COMPANY

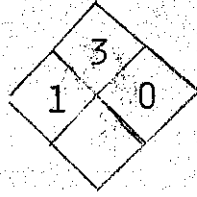
Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements. DC-1

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

000586



IDENTITY (As Used on Label and List)
BANTAM DUPLICATOR FLUID

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name SPIRIT FLUID PACKAGING DIVISION STARKEY CHEMICAL PROCESS COMPANY	Emergency Telephone Number (312) 352-2565
Address (Number, Street, City, State, and ZIP Code) 9600 WEST OGDEN AVENUE	Telephone Number for Information (800) 323-3040 TOLL FREE OUTSIDE ILLINOIS
P. O. BOX 10A	Date Prepared REV: 03 06/09/86
LA GRANGE, IL 60525	Signature of Preparer (optional) <i>Gita M. Troka</i>

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
C.A.S. # 67-56-1 METHYL ALCOHOL	200 ppm	200 ppm	TWA 8-HR	<100%

Section III — Physical/Chemical Characteristics

Boiling Point CALCULATED 147°F	Specific Gravity (H ₂ O = 1) 20/20°C .802
Vapor Pressure (mm Hg.) @ 68°F CALCULATED 96 mmHg	Melting Point NOT DETERMINED
Vapor Density (AIR = 1) CALCULATED 1.11	Evaporation Rate (Butyl Acetate = 1) 2.0
Solubility in Water COMPLETE IN ALL PROPORTIONS	
Appearance and Odor CLEAR-COLORLESS LIQUID, CHARACTERISTIC-ALCOHOL ODOR	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) TAG CLOSED CUP 53°F	Flammable Limits	LEL 6.0%	UEL 36.0%
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Extinguishing Media
CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL-TYPE FOAM

Special Fire Fighting Procedures
MIXTURE INTRODUCES THE POTENTIAL OF A CLASS 1B FLAMMABLE LIQUID FIRE HAZARD. CARBON DIOXIDE OR DRY CHEMICAL EXTINGUISHERS PROVIDES A BLANKETING. FIRE FIGHTERS SHOULD WEAR APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire and Explosion Hazards
FIRE HAZARD MIXTURE WILL EXIST IN ANY VAPOR SPACE OPEN TO AIR REACHES ABOVE 53.6°F. EVAPORATION OF THE LIQUID AT ORDINARY ROOM TEMPERATURE CREATES A POTENTIALLY EXPLOSIVE METHANOL AIR MIXTURE WHEN THE METHANOL CONTENT REACHES 6.0% VOLUME.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	HEAT, SPARKS, OPEN FLAMES
Incompatibility (Materials to Avoid)		REACTS VIGOROUSLY WITH STRONG OXIDIZERS, CHROMIC ANHYDRIDES, LEAD PERCHLORATE, PERCHLORIC ACIDS.	
Hazardous Decomposition or Byproducts INCOMPLETE COMBUSTION WILL GENERATE CARBON MONOXIDE/CARBON DIOXIDE			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	NONE ACCORDING TO CURRENT INFORMATION

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	X	(ACGIH 1984-ABOS "SKIN" NOTATION)	X
Health Hazards (Acute and Chronic) METHANOL IS A POISONOUS CHEMICAL THAT CAN AFFECT THE BODY THROUGH INHALATION & SKIN. INGESTION CAN PRODUCE BLINDNESS; IN AMOUNTS OF 1-4 OUNCES MAY PROVE FATAL. PROMPT MEDICAL ATTENTION IS ESSENTIAL.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure
INHALATION: COUGHING, SHORTNESS OF BREATH, DIZZINESS, INTOXICATION. **EYES:** MODERATE IRRITATION, BURNING SENSATION, TEARING, REDNESS. **SKIN:** IRRITATION, REDNESS. **INGESTION:** DIZZINESS, HEADACHE, NAUSEA, VOMITING.

Medical Conditions Generally Aggravated by Exposure
 INHALATION OF METHANOL VAPOR MAY WORSEN CONDITIONS SUCH AS EMPHYSEMA & BRONCHITIS.

Emergency and First Aid Procedures **INHALATION:** REMOVE TO AIR FREE OF VAPORS, SUPPORT/RESTORE BREATHING. **EYES:** FLUSH WITH WATER FOR AT LEAST 15-20 MIN. SPREAD EYELIDS WHILE FLUSHING. **SKIN:** REMOVE CONTAMINATED CLOTHES/SHOES & WASH THOROUGHLY WITH SOAP & WATER AFFECTED AREAS. **INGESTION:** GIVE WATER TO DILUTE, INDUCE VOMITING, CONTACT PHYSICIAN IMMEDIATELY!

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
FOR ALL SPILLS, ELIMINATE ALL SOURCES OF IGNITION; AVOID INHALATION OF VAPORS.
SMALL SPILLS: USE ABSORBANT MATERIALS TO SOAK UP. **LARGE:** STOP SPILL AT SOURCE, DILUTE WITH WATER, LEAKING CONTAINERS SHOULD BE REMOVED TO OUTDOORS or ISOLATED VENTILATED AREA.

Waste Disposal Method
 FACILITIES MUST BE PROVIDED TO CONTROL, COLLECT & HOLD ACCIDENTAL SPILLS FOR APPROVED DISPOSAL/RECOVERY. AVOID METHANOL ENTERING STREAMS OR SEWERS.

Precautions to Be Taken in Handling and Storing
KEEP AWAY FROM HEAT OR IGNITION SOURCES (INCLUDE SMOKING MATERIALS) USE WITH ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED.

Other Precautions
CONTAINER IS HAZARDOUS WHEN EMPTY. CONTAINER MUST BE LABELED POISON & FLAMMABLE.
"DO NOT TAKE INTERNALLY"!

Section VIII — Control Measures

Respiratory Protection (Specify Type)
 NIOSH/MSHA APPROVED SUPPLIED AIR OR SELF-CONTAINED BREATHING APPARATUS.

Ventilation	Local Exhaust	PROVIDE ADEQUATE VENTILATION TO MAINTAIN	Special
	Mechanical (General)	CONCENTRATION IN AIR BELOW	Other
		PERMISSIBLE EXPOSURE LEVELS.	

Protective Gloves	Eye Protection
LARGE QUANTITY: NITRILE VINYL	LARGE QUANTITY: SPLASH GOGGLES (NO CONTACT LENSES)

Other Protective Clothing or Equipment
LARGE QUANTITIES: SAFETY SHOWERS/EYE WASH STATIONS RECOMMENDED

Work/Hygiene Practices
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH HANDS THOROUGHLY AFTER USE.