EASTMAN KODAK COMPANY
APPROVED BY U.S. DEPARTMENT OF LABOR
"ESSENTIALLY SIMILAR" TO FORM OSHA-20

88-4938

ECP 2079-1F (8-79)

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME:	Propionic Acid	SIZE:	Bulk & 55-gallon drums
CHEMICAL NAME:	Propionic Acid	CAS No.	79-09-4
FORMULA:	CH_3CH_2COOH		
MANUFACTURER:	Marketed by Eastman Chemical Products, Inc.		
ADDRESS:	Kingsport, Tennessee 37662		
FOR INFORMATION ON HEALTH HAZARDS CALL:	Monday thru Friday, 8 a.m.-5 p.m. (Eastern), (615) 229-3613; all other times (615) 229-4666		
FOR OTHER INFORMATION CALL:	(615) 229-5114	INFORMATION EFFECTIVE AS OF:	September 1982

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS COMPONENT (S)	%	TLV (Units)
Not applicable.		

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	286°F (141.1°C)	SPECIFIC GRAVITY (H_2O = 1)	0.99 at 20°C
VAPOR PRESSURE (mm Hg.)	3.0 at 20°C	PERCENT VOLATILE BY VOLUME (%)	~ 100
VAPOR DENSITY (AIR = 1)	2.55	EVAPORATION RATE (_____ = 1)	Not determined.
SOLUBILITY IN WATER	Complete.		
APPEARANCE AND ODOR	Colorless, oily liquid; pungent disagreeable odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	126°F (52°C) Tag Closed Cup	FLAMMABLE LIMITS	Lel	Uel
			3.04% at 148°F	14.9% at 244°F
EXTINGUISHING MEDIA	"Alcohol" foam, Water spray, Dry chemical, CO_2			
SPECIAL FIRE FIGHTING PROCEDURES	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None known to Eastman.			

TOXICITY SUMMARY

Propionic Acid

Test	Species	Result (2)	Toxicity Classification (1
cute Oral LD_{50}	Rat	4260 mg/kg	Slightly Toxic
cute Oral LD_{50}	Rat	2600 mg/kg	Slightly Toxic
ermal LD_{50}	Rabbit	496 mg/kg	
kin Irritation	Rabbit	Corrosive	
ye Irritation	Rabbit	Corrosive	

ropionic acid is a common ingredient in many foods, including dairy products (especially n swiss cheese). It is frequently utilized as a food additive due to its antimicrobial ction. Propionic acid is rapidly absorbed through the gastrointestinal tract and is eadily incorporated into the intermediary metabolism; it is utilized by most organs and issues, and in man, it represents up to 4.0% of the total plasma fatty acid. When added o the feed of rats (750 mg/kg/day for 4 weeks followed by 2250 mg/kg/day for 3 weeks), it roduced no evidence of systemic toxicity. (2)

eferences:

H. C. Hodge and J. H. Sterner. Tabulation of toxicity classes. *American Industrial Hygiene Association Quarterly* 1949;10:93-6.

G. D. Clayton, F. E. Clayton, Editors. *Patty's Industrial Hygiene and Toxicology*, 3rd Revised Edition, Volume 2C. New York, Wiley-Interscience, 1982, pp. 4911-13.

EASTMAN CHEMICAL PRODUCTS, INC. • KINGSPORT, TENNESSEE 37662 • 615 246-2111
A Subsidiary of Eastman Kodak Company

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE TWA: 10 ppm; STEL: 15 ppm, ACGIH 1981.

EFFECTS OF OVEREXPOSURE

Liquid causes severe skin and eye burns.
Vapor is irritating to eyes, nose, and throat.
(See attached Toxicity Summary.)

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

Skin contact: immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes and get medical attention.

Vapor irritation of eyes, nose, and throat: remove from exposure, treat symptomatically, and get medical attention if symptoms persist.

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		Not applicable.
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) Oxidizing materials can cause a vigorous reaction.

HAZARDOUS DECOMPOSITION PRODUCTS As with any other organic material, combustion will produce carbon dioxide and probably carbon monoxide.

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
May Occur	Will Not Occur	
	X	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all ignition sources. Small spills may be collected with absorbent materials. For large spills, use water spray to dilute spill to a noncombustible mixture. Prevent run-off from entering drains, sewers or streams. Neutralize spill and/or washings with soda ash or lime.

WASTE DISPOSAL METHOD Incineration.
Observe all Federal, state and local laws concerning health and environment.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) An appropriate NIOSH-approved respirator for organic vapor and/or mists should be worn as needed.

VENTILATION				
	LOCAL EXHAUST	Recommended.	SPECIAL	None known to Eastman.
	MECHANICAL (general)	Recommended.	OTHER	None known to Eastman.

PROTECTIVE GLOVES Should be worn.

EYE PROTECTION Full-face respirator for vapor and mist protection if needed; otherwise, safety glasses should be worn.

OTHER PROTECTIVE EQUIPMENT As needed to prevent skin contact.
Eye bath and safety shower.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Material is classified as a Combustible Liquid. Keep away from heat and open flame. Keep container closed. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Use respirator in mists. Wash thoroughly after handling.

OTHER PRECAUTIONS Product residue may remain on or in "empty" package. All precautions for handling the product must be used in handling the "empty" package and residue. Clean before reusing or altering package. Wash contaminated clothing before reuse. Maintain workroom air concentrations below the specified TLVs. (See Section V)