

The C. P. Hall Company

Established 1919

CHEMICALS FOR INDUSTRY

4460 HUDSON DRIVE

STOW, OHIO 44224

CHICAGO, ILLINOIS
MEMPHIS, TENNESSEE
STOW, OHIO
TORRANCE, CALIFORNIA

(216)-929-8311
(800)-321-8242
TWX 810-431-2044
CABLE ADDRESS "HALLCO"

January 5, 1981

V-4001
3 parts
4.100 Akin (B+wt)

Mr. Dick Zindarsic
Chief Chemist
Chardon Rubber Company
373 Washington Street
Chardon, OH 44024

Dear Mr. Zindarsic:

In reply to a request from our Sales Representative, Roger Kyer, a sample of our Glyceryl Mono Oleate CPH-31-N will be delivered to you by Mr. Kyer. Technical data, pricing and an MSDS are attached for your review and information.

We appreciate your interest in our company and its products, Mr. Zindarsic, and if we may be of any further assistance, please call on us.

Very truly yours,

R. M. Brewer

R. M. Brewer
Product Manager

RMB:sc

cc: Mr. Bob Bahr, Purchasing Agent,
Chardon Rubber Company

Roger Kyer, Sales Representative
Attachments

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CHARDO 01477



The **C.P. HALL** Company

Chicago, Illinois 60638 • 7300 South Central Avenue • 312-767-4600
Memphis, Tennessee 38113 • P.O. Box 13303 • 901-948-8663
Stow, Ohio 44224 • 4450 Hudson Drive • 216-929-8311
Torrance, California 90503 • 444 Alaska Avenue • 213-775-6666

TECHNICAL DATA

CPH-31-N GLYCERYL MONO OLEATE-Neutral

SPECIFICATIONS

Acid Value	5 max.
Color in Gardner Units	4 max.
Saponification Value	165-172

TYPICAL ANALYSIS

Acid Value	3
Classification	Non-ionic fatty acid ester
Color in Gardner	3
Form	Clear, oily liquid
Free Fatty Acid	2.5% max.
Grade	Technical
Iodine Value	80
Odor	Fatty oleic type
pH 3% Aqueous	Approx. 5.7
Pounds per gallon	7.9
Saponification Value	168
Specific Gravity @ 30°C	0.943 ± 0.003
Solubility	<u>Soluble</u> in alcohol, acetone, isopropanol, hexane, toluol, vegetable oil, mineral oil. <u>Insoluble</u> in water.

MC 0116
S/N 270
Revised 1-20-76

The technical information and suggestions for use contained herein are believed to be reliable, but they are not to be construed as warranties and no patent liability can be assumed.

CHARDO 01478

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME The C. P. Hall Company		EMERGENCY TELEPHONE NO. 312-767-4600
ADDRESS (Number, Street, City, State, and ZIP Code) 7300 South Central Avenue, Chicago, Illinois 60638		
CHEMICAL NAME AND SYNONYMS Glycerol Mono Oleate		TRADE NAME AND SYNONYMS CPH-31-N
CHEMICAL FAMILY Fatty Ester	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Non-Hazardous					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not applicable	SPECIFIC GRAVITY (H ₂ O=1)	30°C	0.943
VAPOR PRESSURE (mm Hg.)	Not applicable	PERCENT, VOLATILE BY VOLUME (%)		0.0
VAPOR DENSITY (AIR=1)	Not applicable	EVAPORATION RATE (_____ =1)		
SOLUBILITY IN WATER	<0.1			
APPEARANCE AND ODOR	Fatty ester			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	High	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	H ₂ O Fog, CO ₂ , Water			
SPECIAL FIRE FIGHTING PROCEDURES	None			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not applicable
EFFECTS OF OVEREXPOSURE	Not applicable
EMERGENCY AND FIRST AID PROCEDURES	Not applicable

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)		Oxidizing Agents	
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Absorb on solid absorbent; sweep up.
WASTE DISPOSAL METHOD	Dispose to solid waste or burn

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
VENTILATION	LOCAL EXHAUST	O.K.	SPECIAL
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES		No	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		None	Goggles

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	May freeze in cold weather
OTHER PRECAUTIONS	None



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PRICE SCHEDULE

GLYCERYL MONO OLEATE

CPH-31-N

T/L \$1.05/pound

10,000 lbs. - T/L 1.06/pound

2,000 lbs. - 9,999 lbs. 1.07/pound

Less than 2,000 lbs. 1.09/pound

F.O.B.: Chicago, Illinois - quantities more than
2,000 pounds.

Delivered, Chicago Metropolitan Area.

TERMS: Net 30 Days

CONTAINER: 55 gallon tight head unlined (N.R.)

NET WT. 420 pounds.

1/1/81

Price subject to change without notice. All orders priced at time of shipment

CHARDO 01481