

June 30, 1989

M. Hross
CL-OTM

In addition to the comments on the body of the attached MSDS, we are sending some toxicity data on 10G which is not identified on the components list, but only in the product name. Is the hydrochloric acid percentage given the amount which remains after the neutralization of sodium hydroxide in 10G?

There would appear to be little or no room for 10G on the basis of the amount of ethyl acetate and hydrochloric acid and if the amount is low enough, then the toxicity data on 10G will not apply.


H. W. Dietz

90630-5/jp

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MATERIAL SAFETY DATA SHEET

10G in Ethyl Acetate

Experimental Sample No.:

Issued: June 16, 1989

Supersedes: New Issue

Written by: M. Hross

The information in this bulletin applies to experimental samples of 10G in Ethyl Acetate. The sample is provided for experimental purposes only.

Section I

The BFGoodrich Company
Geon Vinyl Division
6100 Oak Tree Blvd.
Cleveland, Ohio 44131

Telephone No.: 1-(800) 438-4366
Transportation Emergency No.:
CHEMTREC 1-(800) 424-9300
Medical Emergency No.:
POISON CENTER (216) 379-8562

Chemical Family: Carboxylic Acid Ester
Chemical Name/Synonyms: Ethyl Ethanoate Mixture
Trade Mark: N.A.
Formula: Mixture
C.A.S. Registry No.: N.A. (Mixture)

Section II - Hazardous Ingredients

<u>Material</u>	<u>C.A.S. Number</u>	<u>Amount in Product</u>	<u>ACGIH TLV-TWA</u>	<u>OSHA PEL-TWA</u>
Ethyl Acetate ^{2,4,5}	141-78-6	90-95	400 ppm	400 ppm
Hydrochloric Acid ^{1,2,4,5} (10G)??	7647-01-0	5-10	5 ppm (Ceiling)	5 ppm (Ceiling)

N.A. - Not Applicable

N.E. - Not Established

¹ Ingredients listed as SARA Sec. 313 reportable.

² Ingredients listed on the Pennsylvania Hazardous Substances List

⁴ Ingredients listed on the Massachusetts Substance List

⁵ Workplace Hazardous Materials Information System ingredient found on the Ingredient Disclosure List - Canada

Notes: TLV-TWA -- Threshold Limit Value - Time Weighted Average for concentration of the chemical substance in the ambient workplace air. American Conference of Governmental

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Industrial Hygienists.

OSHA PEL -- OSHA Permissible Exposure Limit, 8-hour
TWA. 29 CFR 1910.1000 Table 1989.

Section III - Physical Data

Appearance: Amber Liquid Specific Gravity: 0.901*
Odor: Fruity Melting Point: -83°C (-177°F)*
Percent Volatiles: >98
Solubility in Water: 10% v/v @ 25°C*
Vapor Pressure: 100 mg Hg @ 27°C*
Vapor Density: 3.04*
pH: approximately 0.8

* as Ethyl Acetate

Section IV - Fire and Explosion Hazard Data

Flash Point: -4.4°C (24°F) as Ethyl Acetate

Autoignition Temperature: 427°C (800°F) as Ethyl Acetate

Flammable Limits in Air (% by volume - as Ethyl Acetate):
lower 2.2%
upper 11.5%

Notes: Auto-Ignition Temperature - The lowest initial temperature of air passing around the specimen at which, in absence of an ignition source, ignition occurs of itself, as indicated by an explosion, flame or sustained glow.

Extinguishing Media: Carbon dioxide, dry chemical or alcohol foam

Special Firefighting Procedure: Water is not generally suitable for fires involving this material. Water spray can be used to absorb heat, keep containers cool and protect exposed materials. Firefighters should wear a self-contained breathing apparatus in positive-pressure mode.

Unusual Fire and Explosion Hazards: None known.

Section V - Health Hazard Data

Threshold Limit Value: N.E.

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Primary Routes of Exposure: Inhalation, skin contact

Effects of Overexposure:

Acute: Inhalation of the product can cause irritation of the skin, nose and throat at 400 ppm. Higher exposures can produce headache, dizziness and a feeling of intoxication. Can cause collapse, coma and death from massive exposures (over 10,000 ppm).

Chronic: Prolonged and repeated contacted with the product can cause dermatitis.

Medical Conditions Aggravated by Exposure: N.E.

Emergency and First Aid Procedures:

Inhalation: Move victim to fresh air. If breathing has stopped, properly trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Obtain immediate medical attention.

Eve Contact: Gently blot or brush away excess chemical quickly. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. If irritation persists, obtain medical attention immediately.

Skin Contact: Remove contaminated clothing, shoes and leather goods, e.g., watchbands, belts. Gently blot or brush away excess chemical quickly. Wash gently and thoroughly with water and non-abrasive soap. If irritation persists, obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 ml (8 to 10 oz.) of water to dilute material in stomach. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention immediately.

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Section VI - Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Ethanol and acetic acid may be produced if water is present.

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids, chlorinated hydrocarbons

Section VII - Spill or Leak Procedure

Steps to be taken in case material is released or spilled:

Restrict access to area until completion of the cleanup. Insure cleanup is conducted by trained personnel only. Provide adequate personal protective equipment. Ventilate the area. Eliminate all ignition sources. Notify government environmental agencies if release of material into the environment occurs. Do not touch spilled material. Stop or reduce leak if safe to do so. Prevent material entering sewers or confined spaces. Small spills: Take up with inert sorbent material. Place in a suitable, covered, labeled container. Flush area with water. Large spills: Dike with earth, sand, or inert sorbent material to contain the spill. Remove liquid by pumps or vacuum equipment. Place in a suitable, covered, labeled container. Take up residual with inert sorbent material and place in a suitable, covered, labeled container. Flush area with water.

Waste disposal method: Review federal, state and local governmental requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

Section VIII - Special Protection Information

Ventilation: Utilize explosion-proof ventilation (dilution and local exhaust).

Respiratory Protection: NIOSH RECOMMENDATIONS FOR ETHYL ACETATE CONCENTRATIONS IN AIR: Up to 1000 ppm -- full-facepiece chemical cartridge(s) or powered air-purifying respirator with organic vapor cartridges. Up to 10000 ppm -- gas mask with organic vapor canister or full-facepiece supplied-air respirator or full-facepiece self-contained

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breathing apparatus operated in continuous flow mode. Emergency or planned entry in unknown concentration or immediately dangerous to life or health (IDLH) -- positive pressure, full-facepiece self-contained breathing apparatus or positive pressure, full-facepiece self-contained breathing apparatus with an auxiliary positive pressure self-contained breathing apparatus. Escape -- gas mask with organic vapor canister or escape-type self-contained breathing apparatus.

Eye Protection: Chemical goggles suitable for splash protection and/or face shield

Gloves: Butyl rubber

Special Protective Equipment: Impervious coveralls and boots. Have a safety shower and an eyewash station readily available for emergency use.

Section IX - Special Precautions

Material Handling: Use in minimal quantities in designated areas with adequate ventilation. Have emergency equipment (for fires, spills and leaks) readily available. Use suitable, labeled containers kept closed when not in use and protected from damage. Empty containers may be hazardous due to residual material. Ground all drums and transfer vessels. (Grounding clips must contact bare metal.) Eliminate all ignition sources. Post "NO SMOKING" signs in areas of use.

Storage: Store in a cool, dry, well-ventilated area out of direct sunlight and away from incompatible materials and heat and other ignition sources. Use explosion-proof ventilation and electrical equipment. Store in suitable, labeled containers kept tightly closed when not in use and protected from damage. Use suitable, approved storage tanks, buildings, rooms and cabinets.

Section X - Transportation

DOT Proper Shipping Name:
DOT Hazard Classification (Primary):
UN/NA Hazard No.:
EPA/DOT Hazardous Substance RQ:
DOT Labels Required:
Freight Classification Description:

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Section XI - Hazard Codes

NFPA 704 (1980)

(National Fire Protection
Association)

Health: 1
Flammability: 3
Reactivity: 0
Special:

HMIS

(Hazardous Materials Ident-
ification System, National
Paint and Coatings Association)

Health: 3
Flammability: 3
Reactivity: 0
Personal Protection: G

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High;
4=Extreme

User's Responsibility

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of the user's operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained within this bulletin should be provided to the user's employees or customers. We must rely upon the user to utilize this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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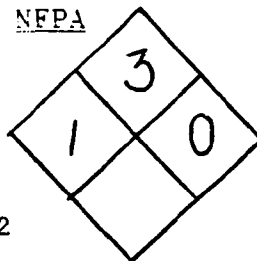
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Product: 10G in Ethyl Acetate

The BFGoodrich Company
Geon Vinyl Division
6100 Oak Tree Blvd.
Cleveland, Ohio 44131

Telephone: 1-(800) 528-0200
CHEMTREC: 1-(800) 424-9300
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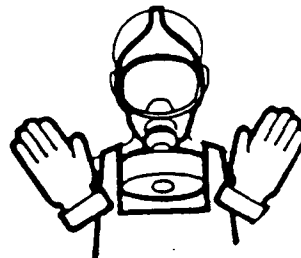
NEPA



HMIS

Health	3
Flammability	3
Reactivity	0
Personal Prot.	G

READ MATERIAL SAFETY DATA SHEET (MSDS)
BEFORE USE



First Aid:

Inhalation of process

emissions: Remove affected individual to fresh air. If breathing has stopped perform CPR. Obtain medical assistance.

Eye Contact: Blot eye quickly. Flush eye with water for 20 minutes. Obtain medical attention.

Skin Contact: Wash affected area with soap and water. If irritation persists, contact a physician.

WARNING! Flammable Liquid.
Keep away from heat and open flames.

Contains:

Ethyl Acetate
(CAS No.: 141-78-6) 90-95%

Hydrochloric Acid
(CAS No.: 7647-01-0) 5-10%

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