

H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® FH-5313-A

Product code : 100000023637

Manufacturer or supplier's details

Company : H.B. Fuller Company

Address : 1200 Willow Lake Boulevard

Vadnais Heights, MN 55110

Telephone : 1-888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Epoxy resin

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	light yellow
Odor	characteristic

GHS Classification

Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitization : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity : Category 2

GHS label elements

Hazard pictograms





Signal Word : Warning

Hazard Statements:

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

Precautionary Statements:

Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

butyl 2,3-epoxypropyl ether 2426-08-6

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Epoxy resin	25036-25-3	70 - 90
1,4-bis(2,3-epoxypropoxy)butane	2425-79-8	10 - 20
butyl 2,3-epoxypropyl ether	2426-08-6	1 - 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Show this material safety data sheet to the doctor in

attendance.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

Get medical attention immediately if irritation develops and



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

persists.

Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical

attention if eye irritation develops or persists.

If swallowed : Do NOT induce vomiting.

If victim is fully conscious, give a cupful of water.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific extinguishing

methods

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
 Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Technical measures : Not applicable

Advice on safe handling : No special precautions required.

Conditions for safe storage : Keep in a dry, cool place.

Materials to avoid : No special restrictions on storage with other products.



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
butyl 2,3-epoxypropyl ether	2426-08-6	TWA	3 ppm	ACGIH
		TWA	50 ppm 270 mg/m3	OSHA Z-1
		TWA	25 ppm 135 mg/m3	OSHA P0
		PEL	25 ppm 135 mg/m3	CAL PEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : Nitrile rubber

Eye protection : Safety glasses

Skin and body protection : Remove and wash contaminated clothing before re-use.

Protective measures : Avoid contact with skin.

Hygiene measures : Avoid contact with skin, eyes and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : light yellow
Odor : characteristic
Odor Threshold : no data available
pH : Not applicable
Melting point/freezing point : is not determined
Boiling point/boiling range : Not applicable

Flash point : Not applicable Evaporation rate : is not determined

Flammability (solid, gas) : Not classified as a flammability hazard



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

Upper explosion limit : Upper flammability limit

is not determined

Lower explosion limit : Lower flammability limit

is not determined

Vapor pressure : is not determined

Density : 9.48 lb/gal

Solubility(ies)

Water solubility : is not determined

Partition coefficient: n- : no data available

octanol/water

Autoignition temperature : is not determined

Viscosity

Viscosity, kinematic : is not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : The product is chemically stable.

Conditions to avoid : Not applicable

Hazardous decomposition

products

: Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 73.33 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Components:

butyl 2,3-epoxypropyl ether:



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

Acute inhalation toxicity : LC50 Rat: 24 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Mobility in soil

No data available

Other adverse effects

No data available



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : To the best of our knowledge, this product does not meet the

definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more

restrictive requirements.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.



H.B. Fuller® FH-5313-A

Version 1.0 Revision Date 12/12/2022

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TSCA All substances listed as active on the TSCA inventory

AIIC On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

KECI On the inventory, or in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Office - phone: 1-651-236-5842 - email: msds.request@hbfuller.com



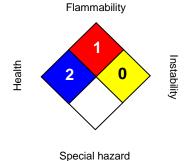
H.B. Fuller® FH-5313-A

Version 1.0

Revision Date 12/12/2022

Further information





HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

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