

# H.B. Fuller® Double Bubble Epoxy Water Clear Part A (04004)

Version 1.0 Revision Date 09/09/2021

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : H.B. Fuller® Double Bubble Epoxy Water Clear Part A

(04004)

Product code : 100000006866

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	clear	
Odor	characteristic	

#### **GHS Classification**

Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitization : Category 1

**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 irritation.



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#### **Precautionary Statements:**

**Prevention:** 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/ 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. 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.

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

#### **Potential Health Effects**

Carcinogenicity:

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

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

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	25068-38-6	90 - 100

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

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.



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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

: Soak up with inert absorbent material. containment and cleaning up 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.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



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Contains no substances with occupational exposure limit values.

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 : clear

Odor : characteristic
Odor Threshold : No data available
pH : Not applicable
Melting point/freezing point : is not determined
Boiling point/boiling range : is not determined

Flash point : 243 °C

Not applicable

Evaporation rate : is not determined

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

Upper explosion limit : Upper flammability limit

is not determined

Lower explosion limit : Lower flammability limit

is not determined

Vapor pressure : is not determined

Density : 1.17 g/cm3

Solubility(ies)

Water solubility : immiscible

is not determined

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : is not determined



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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**

No data available

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



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#### **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

#### **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

**IATA-DGR** 

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

964

Packing instruction : 964

(passenger aircraft)

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Class : 9



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Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : no

## 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

## Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : Respiratory or skin sensitization

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.

**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

DSL All components of this product are on the Canadian DSL



# H.B. Fuller® Double Bubble Epoxy Water Clear Part A (04004)

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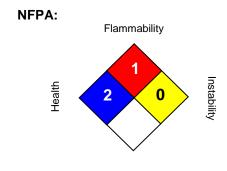
Revision Date 09/09/2021

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

#### **SECTION 16. OTHER INFORMATION**

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

#### **Further information**



Special hazard

## HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

- 0 = not significant, 1 =Slight,
- 2 = Moderate, 3 = High
- 4 = Extreme, \* = Chronic

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.



# H.B. Fuller® Double Bubble Epoxy Water Clear Part B (04004)

Version 1.0 Revision Date 09/09/2021

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : H.B. Fuller® Double Bubble Epoxy Water Clear Part B

(04004)

Product code : 100000006867

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 curing agent

Restrictions on use : For industrial use only.

## **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

Appearance	liquid
Color	clear
Odor	amine-like

## **GHS Classification**

Skin corrosion : Category 1B
Serious eye damage : Category 1
Skin sensitization : Category 1
Reproductive toxicity : Category 1B

Specific target organ toxicity -

single exposure

: Category 3 (Respiratory system)

GHS label elements

GHS label elelilelits

Hazard pictograms





Signal Word : Danger



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#### **Hazard Statements:**

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H360F May damage fertility.

#### **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. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse.

**Storage:** P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

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

## **Potential Health Effects**

## Carcinogenicity:

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

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

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 [%]
3,3'-oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	50 - 70
4,4'-isopropylidenediphenol	80-05-7	20 - 30
Epoxy resin	25068-38-6	10 - 20

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.



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If inhaled : Move to fresh air.

If not breathing, give artificial respiration.

Keep patient warm and at rest.

Consult a physician after significant exposure.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists. Wash contaminated clothing before re-use.

In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at

least 15 minutes. Get medical attention.

Protect unharmed eye.

If swallowed, call a poison control center or doctor

immediately.

Do NOT induce vomiting.

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

If possible drink milk afterwards.

## **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

: Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

## **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.



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#### **SECTION 7. HANDLING AND STORAGE**

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Wear personal protective equipment.

Do not get on skin or clothing.

Use only in an area equipped with a safety shower.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-

ventilated place.

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

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

## Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapor type

Hand protection

Material : butyl-rubber

Eye protection : Safety goggles

Face-shield

Ensure that eyewash stations and safety showers are close to

the workstation location.

Skin and body protection : Long sleeved clothing

Chemical resistant apron

Protective measures : Avoid contact with skin.

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

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid Color : clear



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Odor : amine-like

Odor Threshold : No data available
pH : Not applicable
Melting point/freezing point : is not determined
Boiling point/boiling range : is not determined

Flash point : > 96 °C

Not applicable

Evaporation rate : is not determined

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

Upper explosion limit : Upper flammability limit

is not determined

Lower explosion limit : Lower flammability limit

is not determined

Vapor pressure : is not determined

Density : 1.11 g/cm3

Solubility(ies)

Water solubility : immiscible

is not determined

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : is not determined

Viscosity

Viscosity, kinematic : is not determined

## **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : The product is chemically stable.

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



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Method: Calculation method

Components:

4,4'-isopropylidenediphenol:

Acute oral toxicity : LD50 Oral Rat: 3,200 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 3,000 mg/kg

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**

## **Components:**

4,4'-isopropylidenediphenol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 3.6 - 5.4 mg/l

Exposure time: 96 h

Test Method: flow-through test



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Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 3.9 mg/l

Exposure time: 48 h Test Method: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 2.5 mg/l

Exposure time: 96 h

Test Type: flow-through test

## Persistence and degradability

No data available

**Bioaccumulative potential** 

## Mobility in soil

No data available

#### Other adverse effects

No data available

## **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

IATA-DGR

UN/ID No. : UN 1760

Proper shipping name : Corrosive liquid, n.o.s.

Class : 8
Packing group : III

Labels : Corrosive Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.



# H.B. Fuller® Double Bubble Epoxy Water Clear Part B (04004)

Version 1.0 Revision Date 09/09/2021

Class : 8 Packing group : III Labels : 8

EmS Code : F-A, S-B Marine pollutant : no

## 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** 

UN/ID/NA number : UN 1760

Proper shipping name : Corrosive liquids, n.o.s.

Class : 8 Packing group : III

Labels : CORROSIVE

ERG Code : 154 Marine pollutant : no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : Respiratory or skin sensitization

Reproductive toxicity Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

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

EHS TPQ.

**SARA 313** : The following components are subject to reporting levels established

by SARA Title III, Section 313:

4,4'-isopropylidenediphenol 80-05-7

#### 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).



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**US State Regulations** 

**California Prop 65** Please contact Supplier for more information.

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

TCSI
On the inventory, or in compliance with the inventory
All substances listed as active on the TSCA inventory
All components of this product are on the Canadian DSL
AllC
On the inventory, or in compliance with the inventory
KECI
On the inventory, or in compliance with the inventory
PICCS
On the inventory, or in compliance with the inventory
Inventorical around TSCA (USA)

DSI (Canada)

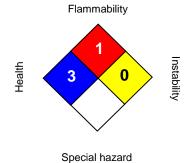
Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

#### **SECTION 16. OTHER INFORMATION**

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

## **Further information**





## HMIS III:



0 = not significant, 1 =Slight, 2 = Moderate, 3 = High

4 = Extreme. \* = Chronic

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.



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