

The following SDS references the products below:

Double/Bubble® Water Clear Epoxy

Vendor Item Number: 04004

Manufactured By:

H.B. Fuller Company

Distributed by Kimball Midwest with the KM productidentification number:

<u>80-1455</u>



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

Version 1.0	Revision Date 09/09/2021
SECTION 1. PRODUCT A	ND COMPANY IDENTIFICATION
Product name	: H.B. Fuller® Double Bubble Epoxy Water Clear Part A (04004)
Product code	: 10000006866
Manufacturer or sup	plier's details
Company	: H.B. Fuller Company
Address	: 1200 Willow Lake Boulevard Vadnais Heights, MN 55110
Telephone	: 1-888-423-8553
Medical Emergency F	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 Eye irritation Skin sensitization	:	Category 2 Category 2A 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 MEA	SURES
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.

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	ent
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 Color Odor Odor Threshold	: liquid : clear : characteristic : No data available
рН	: Not applicable
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point Evaporation rate Flammability (solid, gas)	 243 °C Not applicable is not determined 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 Solubility(ies)	: 1.17 g/cm3
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 no

: 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.
		restrictive requirements.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)		UN 3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Miscellaneous 964 964
IMDG-Code UN number Proper shipping name	:	UN 3082 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 produ TSCA	uct are reported in the following inventories: All substances listed as active on the TSCA inventory

TSCA	All substances listed as active on the TSCA inventory
DSL	All components of this product are on the Canadian DSL



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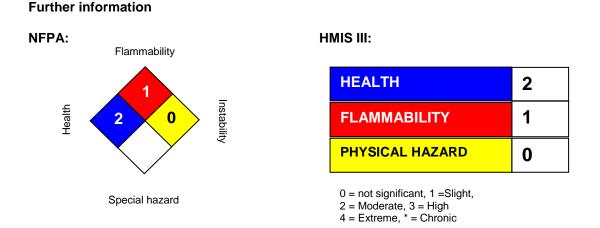
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Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIOC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

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



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 ANI	D COMPANY IDENTIFICATION
Product name	: H.B. Fuller® Double Bubble Epoxy Water Clear Part B (04004)
Product code	: Ì0000Ó006867
Manufacturer or suppl	ier's details
Company	: H.B. Fuller Company
Address	: 1200 Willow Lake Boulevard Vadnais Heights, MN 55110
Telephone	: 1-888-423-8553
Medical Emergency Pho	one Number (24 Hours): 1-888-853-1758
Transport Emergency P	hone 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 Serious eye damage Skin sensitization Reproductive toxicity Specific target organ toxicity - single exposure	 Category 1B Category 1 Category 1 Category 1 Category 1B Category 3 (Respiratory system)
GHS label elements	
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		

Actual concentration is withheld as a trade sec

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	 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 breathin apparatus in addition to standard fire fighting gear.	ng

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 equipme	t	
Respiratory protection	vei	e respiratory protection unless adequate local exhaust ntilation is provided or exposure assessment demonstrates at exposures are within recommended exposure guidelines.
Filter type	: Co	mbined particulates and organic vapor type
Hand protection		
Material	: bu	tyl-rubber
Eye protection	Fa En	fety goggles ce-shield sure that eyewash stations and safety showers are close to e workstation location.
Skin and body protection		ng sleeved clothing nemical resistant apron
Protective measures	: Av	oid contact with skin.
Hygiene measures	: Av	oid contact with skin, eyes and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear



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Odor Odor Threshold	: amine-like : No data available
Odor Threshold	
рН	: Not applicable
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point	: > 96 °C
Evaporation rate	Not applicable : 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 Solubility(ies)	: 1.11 g/cm3
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

4,4'-isopropylidenediphence Acute oral toxicity	bl: : 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 irritati	on
No data available	
Respiratory or skin sensitizatio	n
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

<u>Components:</u> 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	

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.
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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 aircraft)	:	856
Packing instruction (passenger aircraft)	:	852
IMDG-Code		
UN number Proper shipping name	:	UN 1760 CORROSIVE LIQUID, N.O.S.



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Class	:	8
Packing group	:	
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 Proper shipping name	: UN 1760 : 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 of	exposure)
SARA 302	:	This material does not contain any components with a EHS TPQ.	section 302
SARA 313	:	The following components are subject to reporting level by SARA Title III, Section 313: 4,4'-isopropylidenediphenol	vels established 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).



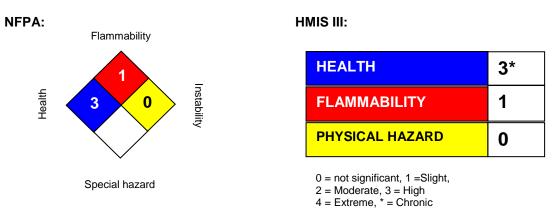
H.B. Fuller® Double Bubble Epoxy Water Clear Part B (04004)

US State Regulations	
California Prop 65	Please contact Supplier for more information.
e ingredients of this produ	uct are reported in the following inventories:
TCSI	On the inventory, or in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory
DSL	All components of this product are on the Canadian DSL
AIIC	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
IECSC	On the inventory, or in compliance with the inventory
	A (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC
(New Zealand), ENCS (Ja	apan), 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





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