

**SAFETY DATA SHEET****H.B. Fuller® DOUBLE/BUBBLE® Epoxy Machineable Part A (04002)**

Version 1.1

Revision Date 12/14/2023

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : H.B. Fuller® DOUBLE/BUBBLE® Epoxy Machineable Part A (04002)  
Product code : 100000017856

**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	amber
Odor	amine-like

**GHS Classification**

Chemicals which, in contact with water, emit flammable gases : Category 2  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Skin sensitization : Category 1  
Germ cell mutagenicity : Category 2

**GHS label elements**

Hazard pictograms :   

Signal Word : Danger

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**Hazard Statements:**

H261 In contact with water releases flammable gas. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects.

**Precautionary Statements:**

**Prevention:** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P223 Do not allow contact with water. P231 + P232 Handle under inert gas. Protect from moisture. 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. P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:** P402 + P404 Store in a dry place. Store in a closed container. 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 [%]
Epoxy resin	25068-38-6	50 - 70
Talc Non-Fibrous	14807-96-6	20 - 30
aluminium	7429-90-5	10 - 20
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	1 - 5
Silica, amorphous fumed	112945-52-5	1 - 5
p-(2,3-epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline	5026-74-4	1 - 5

Actual concentration is withheld as a trade secret

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**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.
- 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.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of causing genetic defects.

**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.

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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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Talc Non-Fibrous	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	2 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
		TWA (respirable dust fraction)	2 mg/m <sup>3</sup>	OSHA P0
aluminium	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Respirable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
		TWA (Total)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable)	5 mg/m <sup>3</sup>	OSHA P0

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		fraction)		
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (welding fumes)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (Fumes)	5 mg/m <sup>3</sup>	OSHA P0
		PEL	5 mg/m <sup>3</sup>	CAL PEL
		TWA (pyro powders)	5 mg/m <sup>3</sup>	NIOSH REL
		PEL	5 mg/m <sup>3</sup>	CAL PEL
		PEL (Welding fumes)	5 mg/m <sup>3</sup>	CAL PEL
		TWA (powder)	5 mg/m <sup>3</sup>	OSHA P0
		PEL (Pyro powders)	5 mg/m <sup>3</sup>	CAL PEL
Silica, amorphous fumed	112945-52-5	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub>	OSHA Z-3
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub>	OSHA Z-3

**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.

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid  
Color : amber  
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 : > 97 °C  
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 : 0.97 g/cm<sup>3</sup>  
Solubility(ies)  
Water solubility : 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.  
Conditions to avoid : Not applicable  
Hazardous decomposition products : Stable under normal conditions.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity

: Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method**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****Components:**

Epoxy resin :

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Partition coefficient: n-octanol/water : log Pow: 2.64 - 3.78 (25 °C)  
pH: 7  
GLP: yes

**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 (passenger aircraft) : 964

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

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

Not applicable for product as supplied.

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**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** : Chemicals which, in contact with water, emit flammable gases  
Respiratory or skin sensitization  
Germ cell mutagenicity  
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

**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

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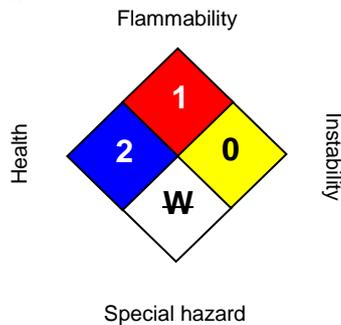
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**IECSC** On the inventory, or in compliance with the inventory  
**Inventories Legend** TSCA (USA), DSL (Canada), REACH(Europe), AIIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

**SECTION 16. OTHER INFORMATION**

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

**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>3</b>

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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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : H.B. Fuller® DOUBLE/BUBBLE® Epoxy Machineable Part B (04002)  
Product code : 100000017869

**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	amber
Odor	amine-like

**GHS Classification**

Acute toxicity (Oral) : Category 4  
Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Skin sensitization : Category 1  
Specific target organ toxicity - single exposure : Category 1  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ toxicity - repeated exposure : Category 2

**GHS label elements**

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Hazard pictograms : 

Signal Word : Danger

**Hazard Statements:**

H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H370 Causes damage to organs. H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

**Prevention:** P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. 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 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. 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/ doctor. P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician. 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 [%]
diethylmethylbenzenediamine	68479-98-1	30 - 50
4,4'-isopropylidenediphenol	80-05-7	30 - 50
3,3'-oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	10 - 20

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Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanedioxy)]bi	68585-28-4	10 - 20
2,2'-iminodi(ethylamine)	111-40-0	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 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.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 May cause respiratory irritation.  
 Causes damage to organs.  
 May cause damage to organs through prolonged or repeated exposure.  
 Causes severe burns.
- Notes to physician : No further relevant information available.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific extinguishing methods :

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- 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.

**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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2'-iminodi(ethylamine)	111-40-0	TWA	1 ppm	ACGIH
		TWA	1 ppm 4 mg/m3	OSHA P0
		PEL	1 ppm 4 mg/m3	CAL PEL

- Engineering measures** : Please take care on national and local requirements.

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**Personal protective equipment**

Respiratory protection	:	Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are 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	:	amber
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
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	:	1.09 g/cm <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	is not determined

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Partition coefficient: n-octanol/water : no data available

Autoignition temperature : is not determined

Thermal decomposition : Not applicable

Viscosity

Viscosity, kinematic : is not determined

Explosive properties : Not explosive

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No further relevant information available.

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Strong exothermic reaction with acids.

Conditions to avoid : No further relevant information available.

Incompatible materials : No further relevant information available.

Hazardous decomposition products : Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : 923.97 mg/kg  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : 2,296 mg/kg  
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

**2,2'-iminodi(ethylamine):**

Acute oral toxicity : LD50 Oral Rat: 819 mg/kg

**Skin corrosion/irritation**

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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

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3.9 mg/l  
aquatic invertebrates : 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

**2,2'-iminodi(ethylamine) :**

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 16 mg/l  
aquatic invertebrates : Exposure time: 48 h

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Test Method: static test

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****4,4'-isopropylidenediphenol :**Partition coefficient: n-  
octanol/water : log Pow: 3.32**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.

Contaminated packaging : Disposal must be made according to official regulations.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**UN/ID No. : UN 1760  
Proper shipping name : Corrosive liquid, n.o.s.  
(Aliphatic amine)  
Class : 8  
Packing group : III  
Labels : Corrosive  
Packing instruction (cargo  
aircraft) : 856  
Packing instruction  
(passenger aircraft) : 852**IMDG-Code**UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.

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(Aliphatic amine)  
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.  
(Aliphatic amine)  
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** : Acute toxicity (any route of exposure)  
Respiratory or skin sensitization  
Specific target organ toxicity (single or repeated exposure)  
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** : The following components are subject to reporting levels established by SARA Title III, Section 313:

4,4'-isopropylidenediphenol 80-05-7

**Clean Air Act**

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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

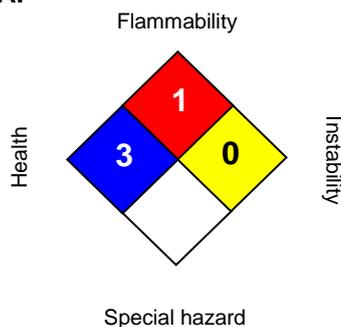
**KECI** On the inventory, or in compliance with the inventory

**IECSC** On the inventory, or in compliance with the inventory

**Inventories Legend** TSCA (USA), DSL (Canada), REACH(Europe), AIIIC (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

**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>4*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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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