

## Safety Data Sheet acc. to OSHA HCS

Date of issue: 08/27/2026

Reviewed on 08/27/2026

### 1 Identification

**- Product identifier**

- **Trade name:** Vibra-TITE® Epoxy

- **Synonyms:** 2-Part Epoxy - Part A - Resin

**- Other means of identification**

- **Part number:** VT944A

- **Application of the substance / the mixture** Adhesives

**- Details of the supplier of the safety data sheet**

**- Manufacturer/Supplier:**

ND Industries, a subsidiary of H.B. Fuller Company  
1000 North Crooks Road  
Clawson, MI 48017  
USA  
Telephone: +1-248-288-0000  
Email: nd-info@hbfuller.com  
Websites: www.ndindustries.com | www.vibra-tite.com

- **Information department:** Product Safety Department

**- Emergency telephone number:**

United States: 1-800-424-9300  
International: +1-703-527-3887

### \* 2 Hazard(s) identification

**- Classification of the substance or mixture**



GHS07

Skin irritation 2

H315 Causes skin irritation.

Eye irritation 2A

H319 Causes serious eye irritation.

Sensitization - skin 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) 3 H335 May cause respiratory irritation.

- **Additional information:** The full text of the classification and labeling elements mentioned is given in Section 16.

**- Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**- Hazard pictograms**



GHS07

- **Signal word** Warning

**- Hazard-determining components of labeling:**

Bisphenol-A epoxy resin  
oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer

**- Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

**- Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash 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.

P280 Wear eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

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|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| P332+P313 | If skin irritation occurs: Get medical advice/attention.                                            |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.                                    |
| P321      | Specific treatment (see on this label).                                                             |
| P337+P313 | If eye irritation persists: Get medical advice/attention.                                           |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.                                    |
| P405      | Store locked up.                                                                                    |
| P501      | Dispose of contents/container in accordance with local/regional/national/international regulations. |

## - Other hazards

### - Results of PBT and vPvB assessment

- **PBT:** Not applicable
- **vPvB:** Not applicable

### - Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

### - Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## \* 3 Composition/information on ingredients

### - Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

#### - Dangerous components:

|                 |                                                                                                                                          |          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| CAS: 25068-38-6 | Bisphenol-A epoxy resin                                                                                                                  | 60 – 80% |
|                 | Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317; Specific target organ toxicity (single exposure) 3, H335 |          |
| CAS: 25085-99-8 | oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer                                                       | 10 – 30% |
|                 | Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317                                                           |          |

## 4 First-aid measures

### - Description of first aid measures

#### - After inhalation:

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.

#### - After skin contact: Immediately wash with water and soap and rinse thoroughly.

#### - After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### - After swallowing: If symptoms persist consult doctor.

### - Most important symptoms and effects, both acute and delayed No further relevant information available.

### - Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

### - Extinguishing media

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

### - Special hazards arising from the substance or mixture No further relevant information available.

### - Advice for firefighters

#### - Protective equipment:

Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6 Accidental release measures

### - Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
Wear protective clothing.

### - Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

### - Methods and material for containment and cleaning up:

Ensure adequate ventilation.  
Dispose of the collected material according to regulations.

### - Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

### - Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.- **Conditions for safe storage, including any incompatibilities**- **Storage:**- **Requirements to be met by storerooms and receptacles:** No special requirements.- **Information about storage in one common storage facility:** Not required- **Further information about storage conditions:** Keep receptacle tightly sealed.- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.- **Exposure controls**- **Appropriate engineering controls** No further data; see section 7.- **Personal protective equipment:**- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR- **Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**- **General Information**- **Physical state**

Liquid

- **Color:**

White

- **Odor:**

uncharacteristic

- **Odor threshold:**

Not determined

- **Melting point/Melting range:**

Undetermined

- **Boiling point/Boiling range:**

≥ 260 °C (≥ 500 °F)

- **Flammability:**

Not applicable

- **Explosion limits:**- **Lower:**

Not determined

- **Upper:**

Not determined

- **Flash point:**

148 °C (298.4 °F)

- **Decomposition temperature:**

Not determined

- **pH-value:**

Not determined

- **Viscosity:**- **Kinematic:**

Not determined

- **Dynamic:**

Not determined

- **Solubility in / Miscibility with**- **Water:**

Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):**

Not determined

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|                                                                                 |                                                 |
|---------------------------------------------------------------------------------|-------------------------------------------------|
| - Vapor pressure:                                                               | Not determined                                  |
| - Vapor pressure:                                                               |                                                 |
| - Density at 20 °C (68 °F):                                                     | ~ 1.19783 g/cm <sup>3</sup> (~ 9.99589 lbs/gal) |
| - Relative density                                                              | Not determined                                  |
| - Vapor density                                                                 | Not determined                                  |
| - Particle characteristics                                                      | Not applicable                                  |
| - Other information                                                             |                                                 |
| - Appearance:                                                                   |                                                 |
| - Form:                                                                         | Pasty                                           |
| - Important information on protection of health and environment, and on safety. |                                                 |
| - Ignition temperature:                                                         | Product is not selfigniting.                    |
| - Danger of explosion:                                                          | Product does not present an explosion hazard.   |
| - Solvent content:                                                              |                                                 |
| - VOC content:                                                                  | 0.00 %                                          |
|                                                                                 | 0.0 g/l / 0.00 lb/gal                           |
| - Solids content:                                                               | 4.1 %                                           |
| - Change in condition                                                           |                                                 |
| - Evaporation rate                                                              | Not determined                                  |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## \* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** Irritant to skin and mucous membranes.
    - **on the eye:** Irritating effect.
  - **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
  - **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

|                                                                    |    |
|--------------------------------------------------------------------|----|
| - <b>IARC (International Agency for Research on Cancer)</b>        |    |
| CAS: 13463-67-7 titanium dioxide                                   | 2B |
| - <b>NTP (National Toxicology Program)</b>                         |    |
| None of the ingredients is listed.                                 |    |
| - <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |    |
| None of the ingredients is listed.                                 |    |

- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

## 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable
  - **vPvB:** Not applicable
- **Other adverse effects**
  - **Remark:** Toxic for fish

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## - Additional ecological information:

### - General notes:

Water hazard class 2 (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms

## 13 Disposal considerations

### - Waste treatment methods

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### - Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

## \*14 Transport information

|                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- UN-Number</b><br><b>- DOT, IMDG, IATA</b>                                                                                                                                             |  | UN3082                                                                                                                                                                                                                                                                                                                  |
| <b>- UN proper shipping name</b><br><b>- DOT</b><br><b>- IMDG</b><br><b>- IATA</b>                                                                                                         |  | Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin); epoxy resin)<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin), MARINE POLLUTANT<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin); epoxy resin) |
| <b>- Transport hazard class(es)</b><br><b>- DOT, IMDG, IATA</b><br><br><b>- Class</b><br><b>- Label</b> |  | 9 Miscellaneous dangerous substances and articles<br>9                                                                                                                                                                                                                                                                  |
| <b>- Packing group</b><br><b>- DOT, IMDG, IATA</b>                                                                                                                                         |  | III                                                                                                                                                                                                                                                                                                                     |
| <b>- Environmental hazards:</b><br><b>- Marine pollutant:</b><br><b>- Special marking (IATA):</b>                                                                                          |  | Product contains environmentally hazardous substances: bisphenol-A-(epichlorhydrin); epoxy resin<br>Yes (DOT)<br>Symbol (fish and tree)<br>Symbol (fish and tree)                                                                                                                                                       |
| <b>- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>                                                                                                           |  | Not applicable                                                                                                                                                                                                                                                                                                          |
| <b>- Transport/Additional information:</b><br><b>- DOT</b><br><b>- Quantity limitations</b><br><b>- Remarks:</b>                                                                           |  | On passenger aircraft/rail: No limit<br>On cargo aircraft only: No limit<br>Special marking with the symbol (fish and tree).                                                                                                                                                                                            |
| <b>- IMDG</b><br><b>- Limited quantities (LQ)</b><br><b>- Excepted quantities (EQ)</b>                                                                                                     |  | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml                                                                                                                                                                                                  |
| <b>- Special precautions for user</b><br><b>- Hazard identification number (Kemler code):</b><br><b>- EMS Number:</b><br><b>- Stowage Category</b>                                         |  | Warning: Miscellaneous dangerous substances and articles<br>90<br>F-A,S-F<br>A                                                                                                                                                                                                                                          |
| <b>- UN "Model Regulation":</b>                                                                                                                                                            |  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLORHYDRIN); EPOXY RESIN), 9, III                                                                                                                                                                                                         |

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## 15 Regulatory information

### - Safety, health and environmental regulations/legislation specific for the substance or mixture

#### - Sara

#### - Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### - Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### - TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

#### - Hazardous Air Pollutants

None of the ingredients is listed.

#### - Proposition 65

#### - Chemicals known to cause cancer:

None of the ingredients is listed.

#### - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### - Carcinogenic categories

#### - EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### - TLV (Threshold Limit Value)

CAS: 13463-67-7 titanium dioxide

A4

#### - NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 13463-67-7 titanium dioxide

### - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### - Department issuing SDS: H.B. Fuller Company | ND Industries Health and Environmental Affairs

### - Contact: Safety, Health and Environmental Affairs

### - Classification System:

#### - HMIS-ratings (scale 0 - 4)

|            |   |                |
|------------|---|----------------|
| HEALTH     | 2 | Health = 2     |
| FIRE       | 1 | Fire = 1       |
| REACTIVITY | 0 | Reactivity = 0 |

#### - NFPA ratings (scale 0 - 4)

|   |   |   |                |
|---|---|---|----------------|
| 2 | 1 | 0 | Health = 2     |
|   |   |   | Fire = 1       |
|   |   |   | Reactivity = 0 |

### - Date of previous version 01/31/2024

### - Version number of previous version: 18

### - Date of preparation 08/27/2026

### - Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Skin irritation 2: Skin corrosion/irritation – Category 2  
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Sensitization - skin 1: Skin sensitisation – Category 1

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Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

- **\* Data compared to the previous version altered.**

- **Disclaimer**

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information, or that use of the product will avoid losses or damages or give desired results. It is user's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. The user is advised to review the specific context of the intended use to determine whether the user's intended use violates any law or infringes upon any patent(s). No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

H.B. Fuller, ND, ND Industries, and Vibra-TITE are registered trademarks of the H. B. Fuller Company.

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### 1 Identification

**- Product identifier**

- **Trade name:** Vibra-TITE® Epoxy

- **Synonyms:** 2-Part Epoxy - Part B - Hardener

**- Other means of identification**

- **Part number:** VT944B

- **Application of the substance / the mixture** Adhesives

**- Details of the supplier of the safety data sheet**

**- Manufacturer/Supplier:**

ND Industries, a subsidiary of H.B. Fuller Company  
1000 North Crooks Road  
Clawson, MI 48017  
USA  
Telephone: +1-248-288-0000  
Email: nd-info@hbfuller.com  
Websites: www.ndindustries.com | www.vibra-tite.com

- **Information department:** Product Safety Department

**- Emergency telephone number:**

United States: 1-800-424-9300  
International: +1-703-527-3887

### \* 2 Hazard(s) identification

**- Classification of the substance or mixture**



GHS05 Corrosion

Skin corrosion 1A H314 Causes severe skin burns and eye damage.

Eye damage 1 H318 Causes serious eye damage.



GHS07

Acute toxicity - oral 4 H302 Harmful if swallowed.

Sensitization - skin 1 H317 May cause an allergic skin reaction.

- **Additional information:** The full text of the classification and labeling elements mentioned is given in Section 16.

**- Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**- Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

**- Hazard-determining components of labeling:**

Isophorone Diamine  
benzyl alcohol  
2,4,6-Tris(dimethylaminomethyl)phenol  
Epoxy resin - rubber adduct

**- Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

**- Precautionary statements**

P260 Do not breathe dusts or mists.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.  
P280 Wear eye protection / face protection.

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P301+P312      | If swallowed: Call a poison center/doctor if you feel unwell.                                                                    |
| P301+P330+P331 | If swallowed: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P302+P352      | If on skin: Wash with plenty of water.                                                                                           |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304+P340      | If inhaled: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a poison center/doctor.                                                                                         |
| P321           | Specific treatment (see on this label).                                                                                          |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P405           | Store locked up.                                                                                                                 |
| P501           | Dispose of contents/container in accordance with local/regional/national/international regulations.                              |

## - Other hazards

### - Results of PBT and vPvB assessment

- **PBT:** Not applicable
- **vPvB:** Not applicable

### - Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

### - Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## 3 Composition/information on ingredients

### - Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

#### - Dangerous components:

|               |                                                                                                                                                             |        |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|               | Isophorone Diamine                                                                                                                                          | 25-45% |
|               | Skin corrosion 1A, H314; Acute toxicity - oral 4, H302; Acute toxicity - dermal 4, H312; Sensitization - skin 1, H317                                       |        |
|               | Epoxy resin - rubber adduct                                                                                                                                 | 25-35% |
|               | Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317                                                                              |        |
| CAS: 100-51-6 | benzyl alcohol                                                                                                                                              | 25-50% |
|               | Acute toxicity - oral 4, H302; Acute toxicity - dermal 4, H312; Acute toxicity - inhalation 4, H332; Eye irritation 2A, H319; Sensitization - skin 1B, H317 |        |
|               | 2,4,6-Tris(dimethylaminomethyl)phenol                                                                                                                       | 5-10%  |
|               | Skin corrosion 1A, H314; Acute toxicity - oral 4, H302                                                                                                      |        |

## 4 First-aid measures

### - Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## 5 Fire-fighting measures

### - Extinguishing media

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:**
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.

## 6 Accidental release measures

### - Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose of the collected material according to regulations.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** No special requirements.
    - **Information about storage in one common storage facility:** Not required
    - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

CAS: 100-51-6 benzyl alcohol

WEEL Long-term value: 10 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Appropriate engineering controls** No further data; see section 7.
  - **Personal protective equipment:**
    - **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
    - **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
      - **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
Nitrile rubber, NBR
      - **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
      - **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR
    - **Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Physical state** Liquid
    - **Color:** White
    - **Odor:** Amine-like
      - **Odor threshold:** Not determined
    - **Melting point/Melting range:** Undetermined
    - **Boiling point/Boiling range:** ≥ 205.4 °C (≥ 401.7 °F)
    - **Flammability:** Not applicable
    - **Explosion limits:**
      - **Lower:** Not determined
      - **Upper:** Not determined
    - **Flash point:** 121 °C (249.8 °F)
    - **Auto igniting:** 260 °C (500 °F)
    - **Decomposition temperature:** Not determined
    - **pH-value:** Not determined
    - **Viscosity:**
      - **Kinematic:** Not determined
      - **Dynamic:** Not determined
    - **Solubility in / Miscibility with**
      - **Water:** Not miscible or difficult to mix.
    - **Partition coefficient (n-octanol/water):** Not determined
    - **Vapor pressure at 20 °C (68 °F):** ≤ 0.1 hPa
    - **Vapor pressure at 50 °C (122 °F):** ≤ 0.7 hPa (≤ 0.5 mm Hg)
    - **Density at 20 °C (68 °F):** ~ 1.05 g/cm³ (~ 8.76225 lbs/gal)

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|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| - <b>Relative density</b>                                                              | Not determined                                |
| - <b>Vapor density</b>                                                                 | Not determined                                |
| - <b>Particle characteristics</b>                                                      | Not applicable                                |
| <b>- Other information</b>                                                             |                                               |
| - <b>Appearance:</b>                                                                   |                                               |
| - <b>Form:</b>                                                                         | Liquid                                        |
| <b>- Important information on protection of health and environment, and on safety.</b> |                                               |
| - <b>Ignition temperature:</b>                                                         | Product is not selfigniting.                  |
| - <b>Danger of explosion:</b>                                                          | Product does not present an explosion hazard. |
| - <b>Solvent content:</b>                                                              |                                               |
| - <b>Organic solvents:</b>                                                             | 20.0 %                                        |
| - <b>VOC content:</b>                                                                  | 20.00 %<br>~ 210.0 g/l / ~ 1.75 lb/gal        |
| - <b>Solids content:</b>                                                               | 0.0 %                                         |
| - <b>Change in condition</b>                                                           |                                               |
| - <b>Evaporation rate</b>                                                              | Not determined                                |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## \*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

|                                                               |          |                                        |
|---------------------------------------------------------------|----------|----------------------------------------|
| <b>- LD/LC50 values that are relevant for classification:</b> |          |                                        |
| <b>ATE (Acute Toxicity Estimate)</b>                          |          |                                        |
| Oral                                                          | LD50     | 857 mg/kg                              |
| Dermal                                                        | LD50     | 2,157 mg/kg                            |
| Inhalative                                                    | LC50/4 h | 55 mg/l                                |
| <b>Isophorone Diamine</b>                                     |          |                                        |
| Oral                                                          | LD50     | 500 mg/kg (ATE)                        |
| Dermal                                                        | LD50     | 1,100 mg/kg (ATE)                      |
| <b>CAS: 100-51-6 benzyl alcohol</b>                           |          |                                        |
| Oral                                                          | LD50     | 1,200 mg/kg (ATE)<br>1,230 mg/kg (rat) |
| Dermal                                                        | LD50     | 2,000 mg/kg (rabbit)                   |
| Inhalative                                                    | LC50/4 h | 11 mg/l (ATE)                          |
| <b>2,4,6-Tris(dimethylaminomethyl)phenol</b>                  |          |                                        |
| Oral                                                          | LD50     | 500 mg/kg (ATE)                        |

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

### - Additional toxicological information:

- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

|                                                                    |  |
|--------------------------------------------------------------------|--|
| <b>- IARC (International Agency for Research on Cancer)</b>        |  |
| None of the ingredients is listed.                                 |  |
| <b>- NTP (National Toxicology Program)</b>                         |  |
| None of the ingredients is listed.                                 |  |
| <b>- OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |  |
| None of the ingredients is listed.                                 |  |

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- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

## 12 Ecological information

### - Toxicity

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

### - Results of PBT and vPvB assessment

- **PBT:** Not applicable

- **vPvB:** Not applicable

### - Other adverse effects

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

### - Waste treatment methods

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### - Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

### - UN-Number

- **DOT, IMDG, IATA** not regulated

### - UN proper shipping name

- **DOT, IMDG, IATA** not regulated

### - Transport hazard class(es)

- **DOT, ADN, IMDG, IATA**

- **Class** not regulated

### - Packing group

- **DOT, IMDG, IATA** not regulated

### - Environmental hazards:

Not applicable

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

Not applicable

### - Special precautions for user

Not applicable

### - UN "Model Regulation":

not regulated

## 15 Regulatory information

### - Safety, health and environmental regulations/legislation specific for the substance or mixture

#### - Sara

#### - Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### - Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### - TSCA (Toxic Substances Control Act):

benzyl alcohol

ACTIVE

#### - Hazardous Air Pollutants

None of the ingredients is listed.

#### - Proposition 65

#### - Chemicals known to cause cancer:

None of the ingredients is listed.

#### - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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**- Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**- Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**- Carcinogenic categories**
**- EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**- TLV (Threshold Limit Value)**

None of the ingredients is listed.

**- NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**- Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**- Department issuing SDS:** H.B. Fuller Company | ND Industries Health and Environmental Affairs

**- Contact:** Safety, Health and Environmental Affairs

**- Classification System:**
**- HMIS-ratings (scale 0 - 4)**

|            |   |                |
|------------|---|----------------|
| HEALTH     | 3 | Health = 3     |
| FIRE       | 1 | Fire = 1       |
| REACTIVITY | 0 | Reactivity = 0 |

**- NFPA ratings (scale 0 - 4)**

|   |   |   |                |
|---|---|---|----------------|
| 3 | 1 | 0 | Health = 3     |
|   |   |   | Fire = 1       |
|   |   |   | Reactivity = 0 |

**- Date of previous version** 01/31/2024

**- Version number of previous version:** 17

**- Date of preparation** 08/27/2026

**- Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Acute toxicity - oral 4: Acute toxicity – Category 4  
 Skin corrosion 1A: Skin corrosion/irritation – Category 1A  
 Skin irritation 2: Skin corrosion/irritation – Category 2  
 Eye damage 1: Serious eye damage/eye irritation – Category 1  
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Sensitization - skin 1: Skin sensitisation – Category 1  
 Sensitization - skin 1B: Skin sensitisation – Category 1B

**- \* Data compared to the previous version altered.**
**- Disclaimer**

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