

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/10/2022

Reviewed on 03/10/2022

1 Identification

- **Product identifier**
 - **Trade name:** EP75-1 (Part-A)
 - **Article number:** Epoxy resin blend
 - **Relevant identified uses of the substance or mixture and uses advised against**
Recommended use - Adhesives, Sealants, Coatings
 - **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Master Bond Inc.
154 Hobart Street
USA-Hackensack, NJ 07601
Phone: 201-343-8983
 - **Information department:**
Product safety department
- Emergency phone number : (CHEMTREC)
(North America) : 800-424-9300
(International) : 703-527-3887



2 Hazard(s) identification

- **Classification of the substance or mixture**
- Flam. Liq. 3 H226 Flammable liquid and vapor.
- Acute Tox. 4 H302 Harmful if swallowed.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Muta. 2 H341 Suspected of causing genetic defects.
- Carc. 2 H351 Suspected of causing cancer.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 1 H372 Causes damage to the central nervous system, the skin, the respiratory system and the hearing organs through prolonged or repeated exposure.
- Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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



GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger
- **Hazard statements**
Flammable liquid and vapor.
Harmful if swallowed or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.

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*Suspected of causing cancer.**May cause respiratory irritation.**Causes damage to the central nervous system, the skin, the respiratory system and the hearing organs through prolonged or repeated exposure.**Toxic to aquatic life with long lasting effects.***Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Avoid breathing dust/fume/gas/mist/vapors/spray**Do not get in eyes, on skin, or on clothing.**Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Contaminated work clothing must not be allowed out of the workplace.**Avoid release to the environment.**Wear protective gloves / eye protection / face protection.**Use personal protective equipment as required.**If swallowed: Call a poison center/doctor if you feel unwell.**If on skin: Wash with plenty of soap and water.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**If skin irritation or rash occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Take off contaminated clothing and wash it before reuse.**Store in a well-ventilated place. Keep cool.**Store in a closed container.***Classification system:****NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	2
FIRE	1
REACTIVITY	0

Health = 2

Fire = 1

Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description: Mixture of the substances listed below with nonhazardous additions.****Hazardous components:**

Graphite (CAS no. 7782-42-5)	50-100%
Epoxy resin (CAS no. 25068-38-6)	25-50%
Modifier (CAS no. 2426-08-6, 71-36-3)	1-20%

Main Components:

Graphite (CAS no. 7782-42-5)	50-100%
Epoxy resin (CAS no. 25068-38-6)	25-50%

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Modifier (CAS no. 2426-08-6, 71-36-3)

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1-20%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Seek immediate medical advice.
- **After swallowing:**
Do not induce vomiting; immediately call for medical help.
Seek immediate medical advice.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Advice for firefighters**
- **Protective equipment:** Wear personal protective equipments.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.

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- *Conditions for safe storage, including any incompatibilities*
- **Storage:**
- *Requirements to be met by storerooms and receptacles: No information available.*
- *Information about storage in one common storage facility: Not required.*
- *Further information about storage conditions: Keep receptacle tightly sealed.*

8 Exposure controls/personal protection

- *Additional information about design of technical systems: No further data; see item 7.*
- **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**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from heat, sparks and flame.
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:** *Use suitable respiratory protective device in case of insufficient ventilation.*
- **Protection of hands:**



Protective gloves

- **Material of gloves** *Chemical resistant gloves.*
- **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.
- **Eye protection:**



Safety glasses recommended.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** *Highly viscous*
- **Color:** *Black*
- **Odor:** *Pungent*
- **Odor threshold:** *Not available*
- **pH-value:** *Not available*

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· <i>Change in condition</i>	
<i>Melting point/Melting range:</i>	Not available
<i>Boiling point/Boiling range:</i>	Not available
· <i>Flash point:</i>	
Not available	
· <i>Flammability (solid, gaseous):</i>	
Not available	
· <i>Decomposition temperature:</i>	
Not available	
· <i>Auto igniting:</i>	
Not available	
· <i>Danger of explosion:</i>	
Not available	
· <i>Explosion limits:</i>	
<i>Lower:</i>	Not available
<i>Upper:</i>	Not available
· <i>Vapor pressure:</i>	
Not available	
· <i>Density:</i>	
<i>Relative density at 20 °C (68 °F)</i>	1.53 g/cm ³
<i>Vapor density</i>	Not available
<i>Evaporation rate</i>	Not available
· <i>Solubility in / Miscibility with</i>	
<i>Water:</i>	Not miscible or difficult to mix.
· <i>Partition coefficient (n-octanol/water):</i>	
Not available	
· <i>Viscosity:</i>	
<i>Dynamic:</i>	Not available
<i>Kinematic:</i>	Not available

10 Stability and reactivity

- *Reactivity* No further relevant information available.
- *Conditions to avoid* No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- *Hazardous decomposition products:* Carbon monoxide

11 Toxicological information

- *Information on toxicological effects*
- *Acute toxicity:*
- *LD/LC50 values that are relevant for classification:*
- Modifier:*
- CAS no. (2426-08-6)
- LC50 Oral, Rat: 1660 mg/kg
- LD50 Dermal, Rat: >2150 mg/kg

- CAS no. (71-36-3)
- LD50 Oral, Rat: 790 mg/kg
- LC50 Inhalation, Rat: 24 mg/l (4hr)
- LD50 Dermal, Rabbit: 3400 mg/kg

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25068-38-6 bisphenol-A-(epichlorohydrin) epoxy resin

Oral LD50 11400 mg/kg (rat)

Dermal LD50 2000 mg/kg (rat)

· **Primary irritant effect:**

· **on the skin:** May cause skin irritation.

· **on the eye:** Can cause eye irritation.

· **Sensitization:** May cause allergic skin reaction.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

Substance is not listed

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly 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.

· **Other adverse effects** No further relevant information available.

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** : Not regulated

· **ADR, IMDG, IATA** : 3082

· **UN proper shipping name**

· **DOT** : Not regulated

· **ADR, IMDG, IATA** : Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

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· *Transport hazard class(es)*· *DOT* : Not regulated· *ADR, IMDG, IATA*· *Class* 9 Miscellaneous dangerous substances and articles· *Label* 9· *Packing group*· *DOT* : Not regulated· *ADR, IMDG, IATA* : III

15 Regulatory information

· *Safety, health and environmental regulations/legislation specific for the substance or mixture*
 No further relevant information available.

· *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.

· *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)*

71-36-3 butan-1-ol

· *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.

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

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Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word Danger

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.

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· **Department issuing SDS:** Product safety department

· **Contact:** Master Bond Inc.

· **Date of preparation / last revision** 03/10/2022 / -

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

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

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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1 Identification

- **Product identifier**
 - **Trade name:** EP75-1 (Part-B)
 - **Article number:** Curing agent blend
 - **Relevant identified uses of the substance or mixture and uses advised against**
Recommended use - Adhesives, Sealants, Coatings
 - **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Master Bond Inc.
154 Hobart Street
USA-Hackensack, NJ 07601
Phone: 201-343-8983
 - **Information department:**
Product safety department
- Emergency phone number : (CHEMTREC)
(North America) : 800-424-9300
(International) : 703-527-3887



2 Hazard(s) identification

- **Classification of the substance or mixture**
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05 GHS07 GHS09

- **Signal word** Danger
- **Hazard statements**
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

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If swallowed: Immediately call a poison center/doctor.
 If swallowed: Rinse mouth. Do NOT induce vomiting.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 3
 Fire = 1
 Reactivity = 0

- HMIS-ratings (scale 0 - 4)

HEALTH	3
FIRE	1
REACTIVITY	0

Health = *3
 Fire = 1
 Reactivity = 0

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
 Modified amine curing agent blend (CAS no. 26950-63-0, 112-24-3) (60-100%)

4 First-aid measures

- Description of first aid measures
- After inhalation:
 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
 Seek medical treatment.
- After skin contact:
 Immediately wash with water and soap and rinse thoroughly.
 Seek medical treatment.
- After eye contact:
 Rinse opened eye for several minutes under running water. Then consult a doctor.
 Seek medical treatment.
- After swallowing:
 Do not induce vomiting; immediately call for medical help.
 If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
 Seek medical treatment.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus and chemical-protective clothing.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· PAC-1:
Substance is not listed.

· PAC-2:
Substance is not listed.

· PAC-3:
Substance is not listed.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
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:**
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
No information available.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly closed in a dry, cool and well-ventilated place.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
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:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Chemical resistant gloves.
- **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.
- **Eye protection:**



Safety glasses recommended.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Color: Straw

- **Odor:** Amine-like

- **Odor threshold:** Not available

- **pH-value:** Not available.

- **Change in condition**

Melting point/Melting range: Not available

Boiling point/Boiling range: >204 °C (>399.2 °F)

- **Flash point:** >93 °C (>199.4 °F)

- **Flammability (solid, gaseous):** Not available

- **Ignition temperature:** Not available

- **Decomposition temperature:** Not available

- **Auto igniting:** Not available

- **Danger of explosion:** Not available

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· Explosion limits:	
Lower:	Not available
Upper:	Not available
· Vapor pressure at 20 °C (68 °F): 1.33 hPa (1 mm Hg)	
· Density:	
Relative density at 20 °C (68 °F)	1.0 g/cm ³
Vapor density	Not available
Evaporation rate	Not available
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not available	
· Viscosity:	
Dynamic:	Not available
Kinematic:	Not available

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
Modified amine curing agent blend
CAS no. 26950-63-0: LD50 Dermal, Rabbit: > 1000 mg/kg
LD50 Oral, Rat: > 2000 mg/kg
CAS no. 112-24-3: LD50 Dermal, Rabbit: 1465.4 mg/kg
LD50 Oral, Rat: 1716.2 mg/kg
- **Primary irritant effect:**
- **on the skin:** Corrosive.
- **on the eye:** Corrosive.
- **Sensitization:** May cause allergic skin reaction.
- **Additional toxicological information:**
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)
--

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)
--

Substance is not listed.

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12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
*Water hazard class 1 (Self-assessment): slightly hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.*
- **Other adverse effects** No further relevant information available.

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, ADR, IMDG, IATA :** 2735
- **UN proper shipping name**
- **DOT, ADR, IMDG, IATA :** Polyamines, liquid, corrosive, n.o.s. (Triethylenetetramine, propoxylated, triethylene tetramine)
- **Transport hazard class(es)**
- **DOT**

 · **Class** 8 Corrosive substances
 · **Label** 8
- **ADR, IMDG, IATA**

 · **Class** 8 Corrosive substances
 · **Label** 8
- **Packing group**
- **DOT, ADR, IMDG, IATA :** II

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15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Active

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value)

Substance is not listed.

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

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS05



GHS07



GHS09

· Signal word *Danger*

16 Other information

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· **Department issuing SDS:** Product safety department

· **Contact:** Master Bond Inc.

· **Date of preparation / last revision** 03/10/2022 / -

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

US