



**Akona Manufacturing, LLC.**  
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**Emergency Telephone Number:**  
651-688-9116  
**Information Telephone Number**  
651-905-8137

**Revision Date**  
January 2016

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### **Section 1: Product Identification**

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Product Type: Sealant & Adhesive

**Akona Product Name:**  
Epoxy Crack Repair - Resin

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### **Section 2: Hazard Identification**

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#### **Classification of the substance or mixture:**



**GHS07**

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.

This chemical has been evaluated according to GHS (Globally Harmonized System) and by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

**Signal Word:** Warning

**Hazard Statements:**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

**Precautionary statements:**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear protective gloves.  
Wear eye protection / face protection.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.



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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Classification system:

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

Health = 2

Fire = 1

Reactivity = 0

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

Health = 2

Fire = 1

Physical Hazard = 0

#### Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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### Section 3: Hazardous Ingredients/Composition

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**Chemical characterization:** Mixtures

**Description:** Mixture

#### Hazardous components:

Chemical Name	CAS No	Weight-%
Epoxy Resin	25085-99-8	25-50%
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	10-25%
Epoxy novolac	28064-14-4	10-25%
Benzyl alcohol	100-51-6	2.5-10%
Bisphenol A Epoxy Resin	25068-38-6	≤2.5%



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## **Section 4: First Aid Measures**

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### **First Aid Measures**

#### **General Advice:**

Provide this SDS to medical personnel for treatment.

#### **Inhalation:**

Remove to fresh air if breathing is difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention. In case of unconsciousness, place patient stably in side position for transportation.

#### **Skin Contact:**

In case of contact, immediately wash skin with soap and water, rinse thoroughly. Remove and wash contaminated clothing before reuse or discard. If irritation persists, seek medical attention.

#### **Eye Contact:**

Immediately rinse opened eyes with plenty of running water for at least 20 minutes. Seek immediate medical attention.

#### **Ingestion:**

Rinse out mouth with water. Drink 1-2 glasses of water, but do not induce vomiting unless directed by medical personnel. Do not give liquids to a drowsy, convulsing, or unconscious person. If vomiting occurs, lean patient forward to maintain an open airway and prevent aspiration. Get immediate medical attention.

### **Most Important Symptoms and Effects, both Acute and Delayed**

No further relevant information is available.

### **Indication of any Immediate Medical Attention and Special Treatment Needed**

No further relevant information is available.

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## **Section 5: Fire Fighting Measures**

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### **Suitable Extinguishing Media:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Use fire-fighting measures that suit the environment.

### **Specific Hazards Arising from the Substance or Mixture:**

No further relevant information is available.

### **Advice for Firefighters:**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

### **Protective Equipment:**

Protective clothing and respiratory protective device.



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### Section 6: Accidental Release Measures

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#### **Personal Precautions, Protective Equipment and Emergency Procedures**

##### **Personal precautions:**

Wear protective clothing as described in Section 8 of this safety data sheet.

Keep unprotected persons away.

Ensure adequate ventilation.

##### **For Emergency Responders:**

Restrict access to spill area.

##### **Environmental precautions:**

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater.

#### **Methods and Material for Containment and Cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust), shovel into suitable containers for disposal.

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

##### **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.

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### Section 7: Handling and Storage

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#### **Handling**

##### **Precautions for Safe Handling:**

Avoid prolonged or repeated contact with skin.

Avoid contact with eyes.

Wash thoroughly after handling.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wash thoroughly with soap and water after handling.

Avoid contact with clothing.

While handling product keep out of reach of children and pets.

Do not eat or drink while handling this material.

See Section 6 of this SDS for clean-up instructions.



**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:**

Store in a cool location away from direct heat.

**Information about storage in one common storage facility:**

Store away from oxidizing agents.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

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**Section 8: Exposure Controls/Personal Protection**

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**Additional information about design of technical systems:**

No further data; see item 7.

**Control parameters**

<b>Components with limit values that require monitoring at the workplace:</b>	
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100-51-6 Benzyl alcohol	WEEL Long-term value: 10 ppm
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**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment (see listings below)**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

**Breathing equipment:**

Not necessary if room is well-ventilated.

**Exposure Guidelines**

Exposure guidelines / protective equipment are for routine handling and accidental spills.



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### Individual Protection Measures, such as Personal Protective Equipment

#### Hand Protection:

##### **Protective Gloves**

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

##### **Material of gloves**

Nitrile rubber, NBR

Chloroprene rubber, CR

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.

##### **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/Face Protection:

Tightly sealed goggles.

Safety glasses with side shields.

Use full face shield over protective eye wear when there is a risk of a splash.

#### Skin and Body Protection:

Protective work clothing

Eye wash stations should be available.

#### **General Hygiene Considerations:**

Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse.

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### **Section 9: Physical and Chemical Properties**

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#### Information on Basic Physical and Chemical Properties

##### **General Information**

##### **Appearance:**

**Form:**

Liquid.

**Color:**

Light yellow color.

**Odor:**

Characteristic.

**Odor Threshold:**

Not determined.

**pH:**

Not determined.

**Melting Point/Freezing Point:**

Undetermined.

**Boiling Point/Boiling Range:**

Undetermined.

**Flash Point:**

94°C (201°F)

**Flammability (Solid, Gas):**

Not applicable.



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<b>Ignition Temperature:</b>	Not determined.
<b>Decomposition Temperature:</b>	Not determined.
<b>Auto Igniting:</b>	Product is not self-igniting.
<b>Danger of Explosion:</b>	Product does not present an explosion hazard.
<b>Flammable Limits – Upper:</b>	Not determined.
<b>Flammable Limits – Lower:</b>	Not determined.
<b>Vapor Pressure:</b>	Not determined.
<b>Specific Gravity @ 20°C (68°F):</b>	1.13 g/cm <sup>3</sup> (9.43 lbs/gal)
<b>Relative Density:</b>	Not determined.
<b>Vapor Density:</b>	Not determined.
<b>Evaporation Rate:</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Dynamic Viscosity:</b>	Not determined.
<b>Kinematic Viscosity:</b>	Not determined.
<b>Solids Content:</b>	Not available.
<b>Other Information:</b>	No further relevant information available.

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### Section 10: Stability and Reactivity

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#### 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

Exposure to high temperatures.

Moisture.

#### Incompatible Materials

Strong oxidizers, acids, and bases.

#### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

Phenolics.



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**Section 11: Toxicological Information**

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**Information on Toxicological Effects**

**Acute Toxicity:**

**Primary irritant effect:**

**Skin Contact:**

Irritant to skin and mucous membranes.

**Eye Contact:**

Causes serious eye irritation.

**Sensitization:**

Skin contact – Sensitization possible through skin contact.

**Additional toxicological information:**

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

Irritant.

**Carcinogenic categories:**

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

None of the ingredients is listed.

**NTP (National Toxicological Program):**

None of the ingredients is listed.

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

None of the ingredients is listed.

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**Section 12: Ecological Information**

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**Toxicity**

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

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

**Behavior in environmental systems:**

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

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

**Additional ecological information:**

**General notes:** At present there are no ecotoxicological assessments.

**Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

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





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### Section 13: Disposal Considerations

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#### Waste Treatment Methods

**Recommendation:** Must be specially treated adhering to official regulations.

#### Uncleaned packagings:

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

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### Section 14: Transportation

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#### **UN-Number**

DOT: Not regulated.

ADR, IMDG, IATA: UN3082

#### **UN proper shipping name**

DOT: Not regulated.

ADR: 3082 Environmentally hazardous substances, liquid, n.o.s.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, epoxy novolac), MARINE POLLUTANT

IATA: Environmentally hazardous substance, liquid, n.o.s.

#### **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

**Environmental hazards:** Product contains environmentally hazardous substances: Epoxy Resin

**Marine pollutant:** Symbol (fish and tree)

**Special marking (ADR):** Symbol (fish and tree)



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<b>Special marking (IATA):</b>	Symbol (fish and tree)
<b>Special precautions for user:</b>	Warning: Miscellaneous dangerous substances and articles
<b>Danger code (Kemler):</b>	86
<b>EMS Number:</b>	F-A, S-F
<b>Stowage Category:</b>	A
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC:</b>	Code Not applicable.
<b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., 9, III

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### Section 15: Regulatory Information

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**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 of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

#### Proposition 65

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

**New Jersey Right-to-Know List:**

None of the ingredients is listed.

**New Jersey Special Hazardous Substance List:**



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None of the ingredients is listed.

**Pennsylvania Right-to-Know List:**

100-51-6 Benzyl alcohol

**Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

**Carcinogenicity categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients listed.

**MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

**National regulations:**

**Water hazard class:**

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

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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### Section 16: Other Information

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Additional information on the products is available at. [www.tccmaterials.com](http://www.tccmaterials.com)

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January 2016

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### Section 1: Product Identification

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Product Type: Sealant & Adhesive

**Akona Product Name:**  
Epoxy Crack Repair - Hardener

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### Section 2: Hazard Identification

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#### Classification of the substance or mixture:



#### **GHS08 Health Hazard**

Repr.2  
H361: Suspected of damaging fertility or the unborn child.



#### **GHS05 Corrosion**

Skin Corr. 1B: H314: Causes severe skin burns and eye damage.  
Eye Dam. 1: H318: Causes serious eye damage.



#### **GHS09 Environment**

Aquatic Acute 1: H400: Very toxic to aquatic life  
Aquatic Chronic 1: H410: Very toxic to aquatic life with long lasting effects.



#### **GHS07**

Acute Tox. 4: H302: Harmful if swallowed.  
Skin Sens. 1: H317: May cause an allergic skin reaction.

This chemical has been evaluated according to GHS (Globally Harmonized System) and by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.



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**Signal Word:** Danger

### **Hazard Statements:**

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

### **Precautionary statements:**

Do not breathe dusts or mists.

Wear protective gloves.

Wear eye protection / face protection.

Avoid release to the environment.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

Specific treatment (see on this label).

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Collect spillage.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### **Classification system:**

#### **NFPA Ratings (scale 0-4)**

Health = 3

Fire = 1

Reactivity = 1



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### HMIS Ratings (scale 0-4)

Health = 3

Fire = 1

Physical Hazard = 0

### Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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### Section 3: Hazardous Ingredients/Composition

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**Chemical characterization:** Mixtures

**Description:** Mixture

### Hazardous components:

Chemical Name	CAS No	Weight-%
4-nonylphenol, branched	84852-15-3	25-50%
4,4'-methylenebis (cyclohexylamine)	1761-71-3	25-50%
3-aminomethyl -3, 5, 5- trimethylcyclohexylamine	2855-13-2	10-25%
Benzyl alcohol	100-51-6	2.5-10%

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### Section 4: First Aid Measures

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#### First Aid Measures

##### General Advice:

Provide this SDS to medical personnel for treatment.

##### Eye Contact:

Immediately rinse opened eyes with plenty of running water for at least 20 minutes. Seek immediate medical attention.

##### Skin Contact:

In case of contact, immediately wash skin with soap and water, rinse thoroughly. Remove and wash contaminated clothing before reuse or discard. If irritation persists, seek medical attention.

##### Inhalation:

Remove to fresh air if breathing is difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention. In case of unconsciousness, place patient stably in side position for transportation.

##### Ingestion:

Rinse out mouth with water. Drink 1-2 glasses of water, but do not induce vomiting unless directed by medical personnel. Do not give liquids to a drowsy, convulsing, or unconscious person. If vomiting occurs, lean patient forward to



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maintain an open airway and prevent aspiration. Get immediate medical attention.

### **Most Important Symptoms and Effects, both Acute and Delayed**

No further relevant information is available.

### **Indication of any Immediate Medical Attention and Special Treatment Needed**

No further relevant information is available.

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## **Section 5: Fire Fighting Measures**

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### **Suitable Extinguishing Media:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray. Use fire-fighting measures that suit the environment.

### **Specific Hazards Arising from the Substance or Mixture:**

No further relevant information is available.

### **Advice for firefighters:**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, full protective gear (SCBA).

### **Protective Equipment:**

Protective clothing and respiratory protective device.

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## **Section 6: Accidental Release Measures**

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

#### **Personal precautions:**

Wear protective clothing as described in Section 8 of this safety data sheet.  
Keep unprotected persons away.  
Ensure adequate ventilation.

#### **For Emergency Responders:**

Restrict access to spill area.

#### **Environmental precautions:**

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater.



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### **Methods and Material for Containment and Cleaning up**

Prevent further leakage or spillage if safe to do so. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust), shovel into suitable containers for disposal.

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

### **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.

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## **Section 7: Handling and Storage**

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### **Precautions for Safe Handling**

#### **Advice on Safe Handling:**

Avoid prolonged or repeated contact with skin.

Avoid contact with eyes.

Wash thoroughly after handling.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open containers in a well ventilated area and avoid breathing headspace vapors.

Wash thoroughly with soap and water after handling.

Avoid contact with clothing.

While handling product keep out of reach of children and pets.

Do not eat or drink while handling this material.

See Section 6 of this SDS for clean-up instructions.

#### **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:**

Store in a cool location away from direct heat.

##### **Information about storage in one common storage facility:**

Store away from oxidizing agents.

##### **Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from humidity and water.





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**Specific end use(s)** No further relevant information available.

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### Section 8: Exposure Controls/Personal Protection

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#### 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:	
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100-51-6 Benzyl alcohol	WEEL Long-term value: 10 ppm
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#### Additional information:

The lists that were valid during the creation were used as basis.

#### Exposure controls

#### Personal protective equipment (see listings below)

#### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

#### Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

### Individual Protection Measures, such as Personal Protective Equipment

#### Hand Protection:

#### **Protective Gloves**

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

#### **Material of gloves**

Nitrile rubber, NBR.

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.

#### **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.



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### Eye/Face Protection:

Tightly sealed goggles.

Safety glasses with side shields.

Use full face shield over protective eye wear when there is a risk of a splash.

### Skin and Body Protection:

Protective work clothing

Emergency showers and eye wash stations should be available.

### General Hygiene Considerations:

Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse.

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## Section 9: Physical and Chemical Properties

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### Information on Basic Physical and Chemical Properties

#### General Information

#### Appearance:

Form:	Liquid.
Color:	Light orange color.
Odor:	Characteristic.
Odor Threshold:	Not determined.
pH:	Not determined.
Melting Point/Freezing Point:	Undetermined.
Boiling Point/Boiling Range:	Undetermined.
Flash Point:	> 100°C (> 212°F)
Flammability (Solid, Gas):	Not applicable.
Ignition Temperature:	435°C (815°F)
Decomposition Temperature:	Not determined.
Auto Igniting:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard.
Vapor Pressure:	Not determined.
Specific Gravity @ 20°C (68°F):	0.95 g/cm <sup>3</sup> (7.928 lbs/gal)
Relative Density:	Not determined.
Vapor Density:	Not determined.
Evaporation Rate:	Not determined.
Solubility in / Miscibility with Water:	Slightly soluble.
Partition coefficient (n-octanol/water):	Not determined.
Dynamic Viscosity:	Not determined.
Kinematic Viscosity:	Not determined.
Solids Content:	Not available.
Other Information:	No further relevant information available.



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**Section 10: Stability and Reactivity**

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**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**

Exposure to high temperatures.

Moisture.

**Incompatible Materials**

Reacts with oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide and carbon dioxide

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**Section 11: Toxicological Information**

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**Information on Toxicological Effects**

**Acute toxicity:**

**Primary irritant effect:**

**Skin Contact:**

Severely irritating to the skin.

**Eye Contact:**

Causes serious eye damage.

May be severely irritating to the eyes.

**Sensitization:**

Skin contact – Sensitization possible through skin contact.

**Additional toxicological information:**

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

Irritant

**Carcinogenic categories:**

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

None of the ingredients is listed.



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### NTP (National Toxicological Program):

None of the ingredients is listed.

### OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients is listed.

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## Section 12: Ecological Information

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### Toxicity

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

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

### **Behavior in environmental systems:**

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

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

### **Additional ecological information:**

**General notes:** At present there are no ecotoxicological assessments.

### **Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

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

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## Section 13: Disposal Considerations

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### Waste Treatment Methods

**Recommendation:** Must be specially treated adhering to official regulations.

### Uncleaned packagings:

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

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## Section 14: Transportation

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### **UN-Number**

DOT, ADR, IMDG, IATA: UN1760

### **UN proper shipping name**

DOT: Corrosive liquids, n.o.s. (4-nonylphenol, branched, 4,4'-methylenebis(cyclohexylamine))

ADR: 1760 Corrosive liquids, n.o.s. (4-nonylphenol, branched, 4,4'-methylenebis(cyclohexylamine)), ENVIRONMENTALLY HAZARDOUS



IMDG: CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched, 4.4'-methylenebis(cyclohexylamine)),  
MARINE POLLUTANT  
IATA: Corrosive liquids, n.o.s. (4-nonylphenol, branched, 4.4'-methylenebis(cyclohexylamine))

**Transport Hazard Class(es)**

DOT:



Class: 8 Corrosive substances

ADR, IMDG:



Class: 8 Corrosive substances  
Label: 8

IATA:



Class: 8 Corrosive substances  
Label: 8

**Packing group**

DOT, ADR, IMDG, IATA: II

**Environmental hazards:** Product contains environmentally hazardous substances: 4-nonylphenol, branched

**Marine pollutant:** Yes (DOT) Symbol (fish and tree)



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**Special marking:** (ADR): Symbol (fish and tree)

**Special precautions for user:** Warning: Corrosive substances

**Danger code (Kemler):** 86

**EMS Number:** F-A,S-B

**Stowage Category:** B

**Stowage Code:** SW2 Clear of living quarters.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC:**

Code not applicable.

**Transport/Additional information:**

**DOT**

**Remarks:** Special marking with the symbol (fish and tree).

**UN "Model Regulation":** UN 1760 CORROSIVE LIQUIDS, N.O.S. (4-NONYLPHENOL, BRANCHED, 4,4'-METHYLENEBIS(CYCLOHEXYLAMINE)), 8, II, ENVIRONMENTALLY HAZARDOUS

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### Section 15: Regulatory Information

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**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):**

84852-15-3 4-nonylphenol, branched

**TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.



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### **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

### **New Jersey Right-to-Know List:**

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

### **New Jersey Special Hazardous Substance List:**

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine CO

### **Pennsylvania Right-to-Know List:**

100-51-6 Benzyl alcohol

### **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed

### **Carcinogenicity categories**

#### **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

#### **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients listed.

#### **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

### **National regulations:**

#### **Water hazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

#### **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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### **Section 16: Other Information**

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Additional information on the products is available at. [www.tccmaterials.com](http://www.tccmaterials.com)

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