Safety Data Sheet

BULLDOG EPOXY

Fast Cure Chip Base – PART A

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1. IDENTIFICATION

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	**ONYX CONCRETE COATINGS** **Tel.:** (888)-497-3872 **1610 E. Miraloma Ave.** **Placentia, CA 92870**

PRODUCT IDENTIFIER/NAME: **Fast Cure Chip Base– PART A**
RECOMMENDED USE: Chemical intermediate for epoxy

2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION:

Acute Oral Toxicity Category 5
Skin Irritation Category 2
Skin Sensitizer Category 1
Germ Cell Mutagenicity Category 2

NFPA ratings (scale 0 – 4):

HEALTH	**1**
FIRE	**2**
REACTIVITY	**0**
SPECIAL	**-**

NFPA HAZARD RATING:
4= EXTREME 2= MODERATE 0= INSIGNIFICANT
3= HIGH 1= SLIGHT

HAZARD PICTOGRAMS:

SIGNAL WORD: Warning

PHYSICAL APPEARANCE: Clear to milky colored liquid with faint epoxy odor

HAZARD STATEMENTS:
EYE: Minor transient irritation. No corneal injury likely.
SKIN CONTACT: May cause allergic skin reaction in susceptible individuals. Prolonged exposure

not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.
SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD_{50} for skin absorption in rabbits is 20,000 mg/kg.
INGESTION: Low acute oral toxicity; LD_{50} (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.
INHALATION: Vapors are unlikely due to physical properties. Not a problem unless heated to high temperature.
SYSTEMIC AND OTHER EFFECTS: Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight epoxy resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Epoxy resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

PRECAUTIONARY STATEMENTS: Use personal protective equipment as required to minimize repeated skin exposure. Wash thoroughly after handling. If skin irritation or rash occurs: Wash with plenty of soap and water and avoid repeated exposure. IF ON SKIN: Wash with plenty of soap and water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Reaction products of Epichlorohydrin and Bisphenol A	(CAS 25085-99-8)	> 90%
Alkyl Glycidyl Ether	(CAS 68609-97-2)	>10%
Dipropylene glycol monomethyl ether acetate	(CAS 88917-22-0)	> 7%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary Ingredient shows, the identity may be made available as provided in this standard**.**

4. FIRST AID MEASURES

EYES: Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.
SKIN: Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.
INGESTION: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended
INHALATION: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on **j**udgment of the physician in response to reactions of the patient.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 186°F
METHOD USED: Seta CC
SUITABLE EXTRINGUISHING MEDIA: Dry chemical, Carbon dioxide (CO2), Water spray, Alcohol-resistant foam
HAZARDOUS COMBUSTION MEDIA: Carbon dioxide and carbon monoxide, Hydrocarbons
PRECAUTION FOR FIRE FIGHTING: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and are ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be

excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.
METHODS FOR CLEANING UP: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

HANDLING: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.
STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These recommendations provide general guidance for handling this product.
Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.
EXPOSURE CONTROL: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).
VENTILATION: Good room ventilation usually adequate for most operations.
RESPIRATORY PROTECTION: If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist).
Engineering or administrative controls should be implemented to reduce exposure.
SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.
EYE PROTECTION: Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not applicable
VAP PRESS: Not applicable
VAP DENSITY: Not applicable
SOL. IN WATER: None
SP. GRAVITY: 1.12-1.14
APPEARANCE: Straw colored liquid.
ODOR: Faint epoxy odor

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Excess heating over long periods of time degrades the resin.
INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Base.
HAZARDOUS DECOMPOSITION PRODUCTS: The by-products expected in incomplete pyrolysis or combustion of epoxy resins is mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.
HAZARDOUS POLYMERIZATION: Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE LD 50 Rat: > 5,000 mg/kg
Acute inhalation toxicity
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available
Acute dermal toxicity
DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE LD 50 Rabbit: > 5,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: **No Data Available**

Environmental Fate: **No Data Available**

Bioaccumulation: **No Data Available**

Biodegradation: **No Date Available**

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Transportation Emergency Number 1-800-255-3924 CHEM-TEL

D.O.T. Shipping Name: Not Regulated By D.O.T.

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:
The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

SUPERFUND AMENDMENTS and REAUTHORIZATION ACT of 1986 (SARA) TITLE III:
Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight
NONE		

Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
No	**No**	**No**	**No**	**No**

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for

this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight
NONE		

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The components of this product are contained on the chemical substance inventory list.

16. OTHER INFORMATION

Date Revised: 06/10/2020

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

End of Safety Data Sheet.

Safety Data Sheet

BULLDOG EPOXY

Fast Cure Chip Base – PART B

SECTION 1: Identification

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	**ONYX CONCRETE COATINGS** **Tel.:** (888)-497-3872 **1610 E. Miraloma Ave.** **Placentia, CA 92870**

PRODUCT IDENTIFIER/NAME: **Fast Cure Chip Base – PART B**
RECOMMENDED USE: Chemical intermediate for epoxy

SECTION 2: Hazard(s) identification

GHS classification:

Skin corrosion, category 1A
Serious eye damage,
category 1 Skin sensitization,
category 1 Reproductive
toxicity, category 2 Acute
toxicity (oral), category 4

NFPA / HMIS ratings (scale 0 – 4):

HEALTH	3
FIRE	1
REACTIVITY	0

NFPA HAZARD RATING:
4= EXTREME 3= HIGH 2= MODERATE 1= SLIGHT 0= INSIGNIFICANT

Label elements

Hazard

pictograms:

Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H361 Suspected of damaging fertility or the unborn child

H302 Harmful if swallowed

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection P272 Contaminated work clothing must not be allowed out of the workplace P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood P270 Do not eat, drink or smoke when using this product

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P363 Wash contaminated clothing before reuse

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P310 Immediately call a POISON CENTER or doctor/physician

P321 Specific treatment (see supplemental first aid instructions on this label)

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention P308+P313 IF exposed or concerned: Get medical advice/attention P405 Store locked up

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: Trade Secret	Cycloaliphatic Amine Adduct	30-40
CAS number: 100-51-6	Benzyl Alcohol	30-40
CAS number: 84852-15-3	Nonyl phenol	10-20
CAS number: Trade Secret	Cycloaliphatic Amine Adduct	1-10
CAS number: Trade Secret	Cycloaliphatic Amine	10-20

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR

§1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

First responders should wear gloves and other self-protection when performing treatment.

After inhalation:

Get medical advice if you feel unwell.

Take precautions to ensure your own safety.

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

After skin contact:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse.

After eye contact:

Immediately flush eyes, under eyelids with water for 15 minutes. Remove contact lenses, if present to do so. Protect unexposed eye.

Get medical attention immediately, preferably from an ophthalmologist.

After swallowing:

Rinse mouth and do not induce vomiting.

Get medical advice if you feel unwell or concerned.

Most important symptoms and effects, both acute and delayed Acute symptoms and effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact

time). Symptoms of poisoning may appear several hours later.

Repeated or prolonged skin contact can result in allergic response.

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

Symptoms of exposure may be delayed.

Immediate medical attention and special treatment Specific treatment:

Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an

ophthalmologist.

Excessive exposure may aggravate preexisting skin disorders.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water stream, as this may spread fire.

Specific hazards during fire fighting:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear appropriate personal protective equipment as specified in Section 8. Keep unnecessary and unprotected personnel from entering.

Shut off all possible sources of ignition and avoid friction and impact. Ensure adequate ventilation.

Ensure air handling systems are operational.

Environmental precautions:

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Dispose of contents / container in accordance with local regulations. Wear protective eye wear, gloves and clothing.

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).

Reference to other sections:

For personal protection see section 8.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Do not get in eyes, on skin, or on clothing.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash thoroughly after handling.

Immediately remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place.

Protect from freezing and physical damage.

Keep containers closed when not in use.

Hold bulk storage under a nitrogen blanket.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Benzyl Alcohol	100-51-6	WEEL TWA 10.0 ppm

Biological limit value:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Skin and body protection:

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Where spray mist/vapor is anticipated, permeation resistant clothing is recommended.
Suitable gloves can be recommended by supplier.
Select glove material impermeable and resistant to the substance.
Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Respiratory protection:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use a NIOSH-approved respirator. Selection of air-purifying or positive pressure applied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive- pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapor cartridge.

General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid, clear
Odor	Characteristic
Odor threshold	Not determined or not available.

pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	121 °C (250 °F)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	1.02 g/cm³
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	250 - 450 cPs
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

Strong oxidizing agents.
Strong acids.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, Nitrogen oxides, ammonia.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed

Product data: No data available.

Substance data:

Name	Route	Result
Benzyl Alcohol	oral	LD50 Rabbit: 1040 mg/kg
	inhalation	LC50 Rat: 4.178 mg/L (4hr)
Nonyl phenol	oral	LD50 Rat: 1300 mg/kg
Cycloaliphatic Amine	oral	LD50 Rat: 700 mg/kg
	dermal	LD50 Rabbit: 1700 mg/kg

Skin corrosion / irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

Name	Result
Cycloaliphatic Amine Adduct	Causes severe skin burns.
	Causes severe skin burns.
Nonyl phenol	Corrosive to the skin.
Cycloaliphatic Amine	Causes severe skin burns.

Serious eye damage / irritation

Assessment: Causes serious eye damage

Product data: No data available.

Substance data:

Name	Result
Cycloaliphatic Amine Adduct	Causes serious eye damage.
	Causes serious eye damage.
Nonyl phenol	Causes serious eye damage.

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data: No data available.

Substance data:

Name	Result
Cycloaliphatic Amine Adduct	May cause an allergic skin reaction.
	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Suspected of damaging fertility or the unborn child

Product data: No data available.

Substance data:

Name	Result
Nonyl phenol	Suspected human reproductive toxicant.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity Assessment:

Based on components: material is toxic to aquatic life on an acute basis (LC50/EC50/EL50/LL50 >1 - ≤10 mg/L in the most sensitive species tested).

Product data:

No data available

Substance data:

Name	Result
Nonyl phenol	LC50 Lepomis macrochirus: 0.209 mg/L (96 Hours)
	EC50 Daphnia magna: 0.0844 mg/L (48 Hours)
	EC50 Selenastrum capricornutum (green algae): 0.33 mg/L (72 Hours)

Chronic (long-term) toxicity Assessment:

Based on components: material is toxic to aquatic life on a chronic basis.

Product data: No data available.

Substance data: No data available.

Name	Result
Cycloaliphatic Amine	EC50 Daphnia magna: 33.1 mg/L (48 hr)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Benzyl Alcohol	Readily biodegradable in water.
Nonyl phenol	Inherently biodegradable.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No information available.

SECTION 13: Disposal considerations

Disposal methods:

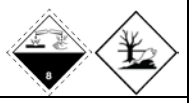
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

Contaminated packages:

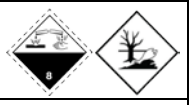
Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN2735
UN proper shipping name	UN2735, Amines, Liquid, Corrosive, N.O.S. (Cycloaliphatic amines, nonyl phenol), 8, II, Marine Pollutant
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN2735
UN proper shipping name	UN2735, Amines, Liquid, Corrosive, N.O.S. (Cycloaliphatic amines, nonyl phenol), 8, II, Marine Pollutant
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN2735

UN proper shipping name	UN2735, Amines, Liquid, Corrosive, N.O.S. (Cycloaliphatic amines, nonyl phenol), 8, II, Marine Pollutant
UN transport hazard class(es)	8
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations Inventory listing (TSCA):

Trade Secret	Cycloaliphatic Amine Adduct	Listed
100-51-6	Benzyl Alcohol	Listed
84852-15-3	Nonyl phenol	Listed
Trade Secret	Cycloaliphatic Amine Adduct	Listed
Trade Secret	Cycloaliphatic Amine	Listed

Significant New Use Rule (TSCA Section5):

84852-15-3	Nonyl phenol	Listed

Export notification under TSCA Section 12(b):

84852-15-3	Nonyl phenol	Listed

SARA Section 302 extremely hazardous substances:

Trade Secret	Cycloaliphatic Amine	Listed

SARA Section 313 toxic chemicals:

84852-15-3	Nonyl phenol	Listed
Trade Secret	Cycloaliphatic Amine	Listed

CERCLA: Not determined.

RCRA:

Trade Secret	Cycloaliphatic Amine	Listed

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

100-51-6	Benzyl Alcohol	Listed
84852-15-3	Nonyl phenol	Listed

New Jersey Right to Know:

Trade Secret	Cycloaliphatic Amine Adduct	Not Listed
100-51-6	Benzyl Alcohol	Not Listed
84852-15-3	Nonyl phenol	Not Listed
Trade Secret	Cycloaliphatic Amine Adduct	Not Listed
Trade Secret	Cycloaliphatic Amine	Not Listed

New York Right to Know:

Trade Secret	Cycloaliphatic Amine Adduct	Not Listed
100-51-6	Benzyl Alcohol	Not Listed
84852-15-3	Nonyl phenol	Not Listed
Trade Secret	Cycloaliphatic Amine Adduct	Not Listed
Trade Secret	Cycloaliphatic Amine	Not Listed

Pennsylvania Right to Know:

100-51-6	Benzyl Alcohol	Listed
84852-15-3	Nonyl phenol	Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet