

# BaseGuard Epoxy B

# **ICP Construction Inc**

Version No: 1.1

Safety Data Sheet according to OSHA HazCom Standard (2024) requirements

Issue Date: **05/09/2025** Print Date: **05/09/2025** S.GHS.USA.EN

# **SECTION 1 Identification**

### **Product Identifier**

Product name	BaseGuard Epoxy B	
Synonyms	Not Available	
Proper shipping name	Amines, liquid, corrosive, n.o.s. (contains N-aminoethylpiperazine)	
Other means of identification	Not Available	

### Recommended use of the chemical and restrictions on use

Relevant identified uses	Specialty flooring curative
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# Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction Inc	
Address	150 Dascomb Road Andover MA 01810 United States	
Telephone	1-866-667-5119 1-978-623-9987	
Fax	Not Available	
Website	www.icpgroup.com	
Email	sds@icpgroup.com	

### **Emergency phone number**

Association / Organisation	ChemTel
Emergency telephone number(s)	1-800-255-3924
Other emergency telephone number(s)	1-813-248-0585

# SECTION 2 Hazard(s) identification

# Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Corrosive to Metals Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 1A, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1

# Label elements

Hazard pictogram(s)









Signal word

Danger

# Hazard statement(s)

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H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

# Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P234	Keep only in original container.
P261	Avoid breathing mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.

# Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious).		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P308+P313	IF exposed or concerned: Get medical advice/ attention.		
P310	Immediately call a POISON CENTER/doctor/physician/first aider.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.		
P363	Wash contaminated clothing before reuse.		
P314	Get medical advice/attention if you feel unwell.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P390	Absorb spillage to prevent material damage.		
P391	Collect spillage.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		

# Precautionary statement(s) Storage

P405	Store locked up.	
P406	Store in corrosive resistant/ container with a resistant inner liner.	

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

# Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name	
9046-10-0	10-30	Polyoxypropylenediamine*	
135108-88-2	10-30	formaldehyde/ benzenamine, hydrogenated	
100-51-6	10-30	benzyl alcohol	
140-31-8	5-10	N-aminoethylpiperazine	
1761-71-3	1-5	4.4'-methylenebis(cyclohexylamine)	
90-72-2	1-5	2.4.6-tris[(dimethylamino)methyl]phenol	
84852-15-3	5-10	4-nonylphenol, branched	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4 First-aid measures**

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### Description of first aid measures

If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. **Eye Contact** For amines: If liquid amines come in contact with the eyes, irrigate immediately and continuously with low pressure flowing water, preferably from an eye wash fountain, for 15 to 30 minutes For more effective flushing of the eyes, use the fingers to spread apart and hold open the eyelids. The eyes should then be "rolled" or moved in all directions. Seek immediate medical attention, preferably from an ophthalmologist. If skin or hair contact occurs: ▶ Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. ▶ Transport to hospital, or doctor. For amines: In case of major exposure to liquid amine, promptly remove any contaminated clothing, including rings, watches, and shoe, preferably Skin Contact under a safety shower Wash skin for 15 to 30 minutes with plenty of water and soap. Call a physician immediately. Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing. Discard contaminated leather articles such as shoes, belts, and watchbands Note to Physician: Treat any skin burns as thermal burns. After decontamination, consider the use of cold packs and topical antibiotics. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
 Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may Inhalation be considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719) For amines: All employees working in areas where contact with amine catalysts is possible should be thoroughly trained in the administration of appropriate first aid procedures Experience has demonstrated that prompt administration of such aid can minimize the effects of accidental exposure. Promptly move the affected person away from the contaminated area to an area of fresh air. Keep the affected person calm and warm, but not hot. If breathing is difficult, oxygen may be administered by a qualified person. If breathing stops, give artificial respiration. Call a physician at once. For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting.
 If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Ingestion Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay For amines: If liquid amine are ingested, have the affected person drink several glasses of water or milk. Immediately transport to a medical facility and inform medical personnel about the nature of the exposure. The decision of whether to

# Most important symptoms and effects, both acute and delayed

See Section 11

### Indication of any immediate medical attention and special treatment needed

For acute or short-term repeated exposures to highly alkaline materials

- ▶ Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.

induce vomiting should be made by an attending physician

- Oxygen is given as indicated.
- ▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure. INGESTION:

Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- Neutralising agents should never be given since exothermic heat reaction may compound injury.
- \* Catharsis and emesis are absolutely contra-indicated.
- \* Activated charcoal does not absorb alkali
- \* Gastric lavage should not be used.

Supportive care involves the following

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

### SKIN AND FYF

Injury should be irrigated for 20-30 minutes.

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Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

For amines

- Certain amines may cause injury to the respiratory tract and lungs if aspirated. Also, such products may cause tissue destruction leading to stricture. If lavage is performed, endotracheal and/or esophagoscopic control is suggested.
- No specific antidote is known
- Care should be supportive and treatment based on the judgment of the physician in response to the reaction of the patient.

Laboratory animal studies have shown that a few amines are suspected of causing depletion of certain white blood cells and their precursors in lymphoid tissue. These effects may be due to an immunosuppressive mechanism.

Some persons with hyperreactive airways (e.g., asthmatic persons) may experience wheezing attacks (bronchospasm) when exposed to airway irritants.

Lung injury may result following a single massive overexposure to high vapour concentrations or multiple exposures to lower concentrations of any pulmonary irritant material. Health effects of amines, such as skin irritation and transient corneal edema ("blue haze," "halo effect," "glaucopsia"), are best prevented by means of formal worker education, industrial hygiene monitoring, and exposure control methods. Persons who are highly sensitive to the triggering effect of non-specific irritants should not be assigned to jobs in which such agents are used, handled, or manufactured.

Medical surveillance programs should consist of a pre-placement evaluation to determine if workers or applicants have any impairments (e.g., hyperreactive airways or bronchial asthma) that would limit their fitness for work in jobs with potential for exposure to amines. A clinical baseline can be established at the time of this evaluation.

Periodic medical evaluations can have significant value in the early detection of disease and in providing an opportunity for health counseling. Medical personnel conducting medical surveillance of individuals potentially exposed to polyurethane amine catalysts should consider the following:

- Health history, with emphasis on the respiratory system and history of infections
- Physical examination, with emphasis on the respiratory system and the lymphoreticular organs (lymph nodes, spleen, etc.)
- Lung function tests, pre- and post-bronchodilator if indicated
- Total and differential white blood cell count
- Serum protein electrophoresis

Persons who are concurrently exposed to isocyanates also should be kept under medical surveillance.

Pre-existing medical conditions generally aggravated by exposure include skin disorders and allergies, chronic respiratory disease (e.g. bronchitis, asthma, emphysema), liver disorders, kidney disease, and eye disease.

Broadly speaking, exposure to amines, as characterised by amine catalysts, may cause effects similar to those caused by exposure to ammonia. As such, amines should be considered potentially injurious to any tissue that is directly contacted.

Inhalation of aerosol mists or vapors, especially of heated product, can result in chemical pneumonitis, pulmonary edema, laryngeal edema, and delayed scarring of the airway or other affected organs. There is no specific treatment.

Clinical management is based upon supportive treatment, similar to that for thermal burns,

Persons with major skin contact should be maintained under medical observation for at least 24 hours due to the possibility of delayed reactions.

Polyurethene Amine Catalysts: Guidelines for Safe Handling and Disposal Technical Bulletin June 2000

Alliance for Polyurethanes Industry

### **SECTION 5 Fire-fighting measures**

### **Extinguishing media**

- Foam
- Dry chemical powder.
- BCF (where regulations permit)

# Special hazards arising from the substrate or mixture

Fire Incompatibility	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Special protective equipment a	and precautions for fire-fighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>For amines:</li> <li>For firefighting, cleaning up large spills, and other emergency operations, workers must wear a self-contained breathing apparatus with full face-piece, operated in a pressure-demand mode.</li> <li>Airline and air purifying respirators should not be worn for firefighting or other emergency or upset conditions.</li> <li>Respirators should be used in conjunction with a respiratory protection program, which would include suitable fit testing and medical evaluation of the user.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Combustion products include:         <ul> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> </li> </ul>		

# **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

May emit corrosive fumes

See section 8

# **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Environmental hazard - contain spillage. Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.

Check regularly for spills and leaks.

Small spills should be covered with inorganic absorbents and disposed of properly. Organic absorbents have been known to ignite when contaminated with amines in closed containers. Certain cellulosic materials used for spill cleanup such as wood chips or sawdust have shown reactivity with ethyleneamines and should be avoided.

# Minor Spills

- Clean up all spills immediately.
  - Avoid breathing vapours and contact with skin and eves.
  - Control personal contact with the substance, by using protective equipment.

- If possible (i.e., without risk of contact or exposure), stop the leak.
- Contain the spilled material by diking, then neutralize.
- Next, absorb the neutralized product with clay, sawdust, vermiculite, or other inert absorbent and shovel into containers.

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# Environmental hazard - contain spillage.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus

#### For amines:

- First remove all ignition sources from the spill area
- Have firefighting equipment nearby, and have firefighting personnel fully trained in the proper use of the equipment and in the procedures used in fighting a chemical fire.
- Figure 5 Spills and leaks of polyurethane amine catalysts should be contained by diking, if necessary, and cleaned up only by properly trained and equipped personnel.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### Precautions for safe handling

# Safe handling

**Major Spills** 

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

# Other information

# for bulk storages:

- If slight coloration of the ethyleneamine is acceptable, storage tanks may be made of carbon steel or black iron, provided they are free of rust and mill scale. However, if the amine is stored in such tanks, color may develop due to iron contamination. If iron contamination cannot be tolerated, tanks constructed of types 304 or 316 stainless steel should be used.
- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- DO NOT store near acids, or oxidising agents
- No smoking, naked lights, heat or ignition sources.

### Conditions for safe storage, including any incompatibilities

- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polyliner drum.

# Suitable container

### For low viscosity materials

- Drums and jerricans must be of the non-removable head type.
- ▶ Where a can is to be used as an inner package, the can must have a screwed enclosure.

For materials with a viscosity of at least 2680 cSt.

### Storage incompatibility

- Avoid contact with copper, aluminium and their alloys.
   Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid reaction with oxidising agents

# SECTION 8 Exposure controls / personal protection

### Control parameters

Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

# Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Polyoxypropylenediamine*	4.8 mg/m3	53 mg/m3	320 mg/m3
benzyl alcohol	30 ppm	52 ppm	740 ppm
N-aminoethylpiperazine	6.4 mg/m3	71 mg/m3	420 mg/m3
2,4,6- tris[(dimethylamino)methyl]phenol	6.5 mg/m3	72 mg/m3	430 mg/m3
4-nonylphenol, branched	3.9 mg/m3	43 mg/m3	260 mg/m3

Ingredient	Original IDLH	Revised IDLH
Polyoxypropylenediamine*	Not Available	Not Available
formaldehyde/ benzenamine, hydrogenated	Not Available	Not Available
benzyl alcohol	Not Available	Not Available
N-aminoethylpiperazine	Not Available	Not Available
4,4'- methylenebis(cyclohexylamine)	Not Available	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available	Not Available
4-nonylphenol, branched	Not Available	Not Available

### Exposure controls

### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

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Individual protection measures, such as personal protective equipment Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. For amines SPECIAL PRECAUTION: Eye and face protection Because amines are alkaline materials that can cause rapid and severe tissue damage, wearing of contact lenses while working with amines is strongly discouraged. Wearing such lenses can prolong contact of the eye tissue with the amine, thereby causing more severe Appropriate eve protection should be worn whenever amines are handled or whenever there is any possibility of direct contact with liquid products, vapors, or aerosol mists. Skin protection See Hand protection below Elbow length PVC gloves When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to Hands/feet protection manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. For amines: ▶ Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended Where there is a possibility of exposure to liquid amines skin protection should include: rubber gloves, (neoprene, nitrile, or butyl). See Other protection below Body protection Overalls PVC Apron. Other protection PVC protective suit may be required if exposure severe.

### Respiratory protection

Type ABK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Where engineering controls are not feasible and work practices do not reduce airborne amine concentrations below recommended exposure limits, appropriate respiratory protection should be used. In such cases, air-purifying respirators equipped with cartridges designed to protect against amines are recommended.

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties Not Available Appearance Relative density (Water = 1) Physical state 9.63 Liquid Partition coefficient n-octanol Not Available Not Available Odour / water Auto-ignition temperature Odour threshold Not Available Not Available (°C) Decomposition pH (as supplied) Not Available Not Available temperature (°C) Melting point / freezing point Not Available Viscosity (cSt) Not Available Initial boiling point and Not Available Molecular weight (g/mol) Not Available boiling range (°C) Flash point (°C) 212 Not Available Taste **Evaporation rate** Not Available Not Available **Explosive properties** Flammability Not Applicable **Oxidising properties** Not Available Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Available Not Available mN/m) Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available Vapour pressure (kPa) Not Available Not Available Gas group Solubility in water Not Available Immiscible pH as a solution (1%) Vapour density (Air = 1) Not Available VOC g/L Not Available Heat of Combustion (kJ/g) Not Available Ignition Distance (cm) Flame Height (cm) Not Available Flame Duration (s) Not Available **Enclosed Space Ignition Enclosed Space Ignition** Not Available Not Available Time Equivalent (s/m3) Deflagration Density (g/m3)

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Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

# Information on toxicological effects

ilorination on toxicological el	nects	
a) Acute Toxicity	There is sufficient evidence to classify this material as acutely toxic.	
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.	
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating	
d) Respiratory or Skin sensitisation	There is sufficient evidence to classify this material as sensitising to skin or the respiratory system	
e) Mutagenicity	Based on available data, the classification criteria are not met.	
f) Carcinogenicity	Based on available data, the classification criteria are not met.	
g) Reproductivity	There is sufficient evidence to classify this material as toxic to reproductivity	
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.	
i) STOT - Repeated Exposure	There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure	
j) Aspiration Hazard	Based on available data, the classification criteria are not met.	
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Inhalation of amine vapours may cause irritation of the mucous membrane of the nose and throat, and lung irritation with respiratory distress and cough. Swelling and inflammation of the respiratory tract is seen in serious cases; with headache, nausea, faintness and anxiety. Inhalation of epoxy resin amine hardeners (including polyamines and amine adducts) may produce bronchospasm and coughing episodes lasting several days after cessation of the exposure. Even faint traces of these vapours may trigger an intense reaction in individuals showing 'amine asthma'.  The material has NOT been classified by EC Directives or other classification systems as 'harmful by inhalation'. This is because of the lack of corroborating animal or human evidence.	
Ingestion	Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow.  Ingestion of amine epoxy-curing agents (hardeners) may cause severe abdominal pain, nausea, vomiting or diarrhoea. The vomitus may contain blood and mucous.  Nonionic surfactants may produce localised irritation of the oral or gastrointestinal lining and induce vomiting and mild diarrhoea.  The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.  Amines without benzene rings when swallowed are absorbed throughout the gut. Corrosive action may cause damage throughout the gastrointestinal tract.	
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  Volatile amine vapours produce irritation and inflammation of the skin. Direct contact can cause burns.  Non-ionic surfactants cause less irritation than other surfactants as they have less ability to denature protein in the skin.  Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals.  Cutaneous reactions include erythema, intolerable tiching and severe facial swelling.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep.	
If applied to the eyes, this material causes severe eye damage.  Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swepermanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness.  Vapours of volatile amines irritate the eyes, causing excessive secretion of tears, inflammation of the conjunctiva and slight cornea, resulting in 'halos' around lights. This effect is temporary, lasting only for a few hours. However this condition can refficiency of undertaking skilled tasks, such as driving a car.  Non-ionic surfactants can cause numbing of the cornea, which masks discomfort normally caused by other agents and lead injury. Irritation varies depending on the duration of contact, the nature and concentration of the surfactant.		
Chronic	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.  Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.  Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.	

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Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation.

Amine epoxy-curing agents (hardeners) may produce primary skin irritation and sensitisation dermatitis in predisposed individuals. Cutaneous reactions include erythema, intolerable itching and severe facial swelling.

BaseGuard	Fnoxy B

TOXICITY	IRRITATION
Not Available	Not Available

# Polyoxypropylenediamine\*

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 250 mg/kg ***[2]	Eye (Rodent - rabbit): 100mg - Severe
Dermal (rabbit) LD50: 360 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
Dermal (rabbit) LD50: 670 mg/kg **[2]	Skin: adverse effect observed (corrosive) <sup>[1]</sup>
Dermal (rabbit) LD50: 760 mg/kg *[2]	
Dermal (rabbit) LD50: 760 mg/kg ****[2]	
Inhalation (Rat) LC50: >2 mg/l *[2]	
Oral (Rat) LD50: 1600 mg/kg ****[2]	
Oral (Rat) LD50: 1660 mg/kg *[2]	
Oral (Rat) LD50: 242 mg/kg <sup>[2]</sup>	
Oral (Rat) LD50: 670 mg/kg **[2]	

# formaldehyde/ benzenamine, hydrogenated

	TOXICITY	IRRITATION	
Dermal (rabbit) LD50: >1000 mg/kg <sup>[1]</sup>		Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
Oral (Rat) LD50: >50<300 mg/kg <sup>[1]</sup>			

# benzyl alcohol

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 2000 mg/kg <sup>[2]</sup>	Eye (Rodent - rat): 0.1mL
Inhalation (Rat)LC50: >4178 mg/m3/4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
Inhalation (Rat)LC50: 1000 ppm/8h <sup>[2]</sup>	Skin (Human - man): 16mg/48H - Mild
Inhalation (Rat)LCLo: 2000 ppm/4h <sup>[2]</sup>	Skin (Human): 1%/2D
Oral (Rat) LD50: 1230 mg/kg <sup>[2]</sup>	Skin (Mammal - pig): 100% - Moderate
	Skin (Rodent - rabbit): 100mg/24H - Moderate
	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>

# N-aminoethylpiperazine

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 880 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 20mg/24H - Moderate
Intraperitoneal (Mouse) LD50: 250 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
Oral (Rat) LD50: 2410 mg/kg <sup>[2]</sup>	Skin (Rodent - rabbit): 100ug/24H
	Skin (Rodent - rabbit): 5mg/24H - Severe
	Skin: adverse effect observed (corrosive) <sup>[1]</sup>
	Skin: adverse effect observed (irritation) <sup>[1]</sup>

# 4,4'methylenebis(cyclohexylamine)

TOXICITY	IRRITATION	
Dermal (rabbit) LD50: 2110 mg/kg *[2]	Eye (Rodent - rabbit): 10uL/24H - Severe	
Inhalation (Mouse)LD50: 400 mg/m3/4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
Oral (Rat) LD50: 380 mg/kg *[2]	Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
Oral (Rat) LD50: 670 mg/kg <sup>[2]</sup>		

# 2,4,6tris[(dimethylamino)methyl]phenol

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 1280 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 50ug/24H - Severe
Inhalation (Rat) LC50: >0.5 mg/l/1 hr.[2]	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
Oral (Rat) LD50: 1200 mg/kg <sup>[2]</sup>	Skin (Rodent - rabbit): 2mg/24H - Severe
Oral (Rat) LD50: 2500 mg/kg *[2]	Skin (Rodent - rabbit): 500uL/24H - Severe
	Skin (Rodent - rat): 0.025mL - Mild
	Skin (Rodent - rat): 0.25mL - Severe
	Skin: adverse effect observed (corrosive) <sup>[1]</sup>

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TOXICITY IRRITATION Eve (Rodent - rabbit): 100mg - Severe Dermal (rabbit) LD50: >2000 mg/kg<sup>[2]</sup> 4-nonylphenol, branched Oral (Rat) LD50: 1000-2500 mg/kg<sup>[2]</sup> Eye: adverse effect observed (irritating)<sup>[1]</sup> Skin (Rodent - rabbit): 500mg/24H - Severe Skin: adverse effect observed (corrosive)<sup>[1]</sup>

Leaend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

#### Convulsions, stomach ulceration, haemorrhage, respiratory tract changes, dermatitis after systemic administration recorded, \* Reichard \*\* Bayer Inc. Canada \*\*\* Texaco \*\*\*\*Epoxylite Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form Polyoxypropylenediamine\* complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The oxidization products also cause irritation. Amine adducts have much reduced volatility and are less irritating to the skin and eyes than amine hardeners. However commercial FORMALDEHYDE/ amine adducts may contain a percentage of unreacted amine and all unnecessary contact should be avoided. BENZENAMINE, HYDROGENATED Amine adducts are prepared by reacting excess primary amines with epoxy resin. Unlike benzylic alcohols, the beta-hydroxyl group of the members of benzyl alkyl alcohols contributes to break down reactions but do not undergo phase II metabolic activation. Though structurally similar to cancer causing ethyl benzene, phenethyl alcohol is only of negligible concern due to limited similarity in their pattern of activity. Benzyl alcohol, benzoic acid and its sodium and potassium salt have a common metabolic and excretion pathway. All but benzyl alcohol are considered to be unharmful and of low acute toxicity. They may cause slight irritation by oral, dermal or inhalation exposure except sodium benzoate which doesn't irritate the skin. Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact dermatitis benzyl alcohol occurs. Contact allergy is a lifelong condition, so symptoms may occur on re-exposure. Fragrance allergens act as haptens, low molecular weight chemicals that cause an immune response only when attached to a carrier protein. However, not all sensitizing fragrance chemicals are directly reactive, but require previous activation. A prehapten is a chemical that itself causes little or no sensitization, but is transformed into a hapten in the skin (bioactivation), usually via enzyme catalysis. This is a member or analogue of a group of benzyl derivatives generally regarded as safe (GRAS), based partly on their self-limiting properties as flavouring substances in food. In humans and other animals, they are rapidly absorbed, broken down and excreted, with a wide safety margin. They also lack significant potential to cause genetic toxicity and mutations. The aryl alkyl alcohol (AAA) fragrance ingredients have diverse chemical structures, with similar metabolic and toxicity profiles. The AAA fragrances demonstrate low acute and subchronic toxicity by skin contact and swallowing. At concentrations likely to be encountered by consumers, AAA fragrance ingredients are non-irritating to the skin. for piperazine Exposure to piperazine and its salts has clearly been demonstrated to cause asthma in occupational settings. No NOAEL can be estimated for respiratory sensitisation (asthma). Although the LD50 levels indicate a relatively low level of oral acute toxicity (LD50 1-5 g/kg bw), signs of neurotoxicity may appear in N-aminoethylpiperazine humans after exposure to lower doses. Based on exposure levels of up to 3.4 mg/kg/day piperazine base and a LOAEL of 110 mg/kg, there is no concern for acute toxicity In pigs, piperazine is readily absorbed from the gastrointestinal tract, and the major part of the resorbed compound is excreted as unchanged piperazine during the first 48 hours. 4.4'-The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function. methylenebis(cyclohexylamine) Gastrointestinal changes, liver changes, effects on newborn recorded. For nonviphenol and its compounds Alkylphenols like nonylphenol and bisphenol A have estrogenic effects in the body. They are known as xenoestrogens. Estrogenic substances and other endocrine disruptors are compounds that have hormone-like effects in both wildlife and humans. 4-NONYLPHENOL, BRANCHED These substances are intravenous anaesthetic agents. They have a very low level of acute toxicity; they may cause skin irritation. Repeated exposure may irritate the stomach. For nonylphenol: Animal testing suggests that repeated exposure to nonylphenol may cause liver changes and kidney dysfunction. Nonylphenol was not found to cause mutations or chromosomal aberrations. BaseGuard Epoxy B & Polyoxypropylenediamine\* & FORMALDEHYDE/ Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic BENZENAMINE, HYDROGENATED condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating & N-aminoethylpiperazine & 4,4'compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden methylenebis(cyclohexylamine) & onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. 2,4,6tris[(dimethylamino)methyl]phenol & 4-NONYLPHENOL, BRANCHED BaseGuard Epoxy B & benzyl The following information refers to contact allergens as a group and may not be specific to this product. alcohol & N-aminoethylpiperazine Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of & 4.4'contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. methylenebis(cyclohexylamine) BaseGuard Epoxy B & N-Ethyleneamines are very reactive and can cause chemical burns, skin rashes and asthma-like symptoms. It is readily absorbed through

BaseGuard Epoxy B & Polyoxypropylenediamine\* & 4,4'methylenebis(cyclohexylamine) &

aminoethylpiperazine

tris[(dimethylamino)methyl]phenol

Overexposure to most of these materials may cause adverse health effects.

Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually transient.

the skin and may cause eye blindness and irreparable damage. As such, they require careful handling.

There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. Higher concentrations of certain amines can produce severe respiratory irritation, characterized by discharge from the nose, coughing, difficulty in breathing and chest pain.

Polyoxypropylenediamine\* &

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis

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tris[(dimethylamino)methyl]phe & 4-NONYLPHENOL, BRANCH				
FORMALDEHYI BENZENAMINE, HYDROGENAT & 2,4 tris[(dimethylamino)methyl]phe	ED 1,6-	No significant acute toxicological data identified in literature search.		
benzyl alcohol & 4 methylenebis(cyclohexylami		The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
N-aminoethylpiperazine & 4 methylenebis(cyclohexylami				
N-aminoethylpiperazine & 2,4,6- tris[(dimethylamino)methyl]phenol & 4-NONYLPHENOL, BRANCHED		The material may cause severe skin irritation a the production of vesicles, scaling and thickeni		and may produce on contact skin redness, swelling, may produce severe ulceration.
Acute Toxicity	~		Carcinogenicity	×
Skin Irritation/Corrosion	~		Reproductivity	✓
Serious Eye Damage/Irritation	~		STOT - Single Exposure	×
Respiratory or Skin sensitisation	~		STOT - Repeated Exposure	<b>~</b>
Mutagenicity	×		Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification
 y − Data available to make classification

# **SECTION 12 Ecological information**

У							
	Endpoint	Test Duration (hr)		Species	Value	s	ource
BaseGuard Epoxy B	Not Available	Not Available		Not Available	Not Available	e N	ot Available
	Endpoint	Test Duration (hr)	Spe	Species		Value	Source
	EC50	48h	Crus	stacea		80mg/l	2
Polyoxypropylenediamine*	EC50	72h	Alga	ae or other aquatic pla	ants	2.1mg/l	2
	NOEC(ECx)	72h	Alga	ae or other aquatic pla	ants	0.32mg/l	2
	LC50	96h	Fish	1		772.14mg/l	2
	Endpoint	Test Duration (hr)	Spe	cies		Value	Source
	EC50	48h		stacea		15.4mg/l	2
formaldehyde/ benzenamine, hydrogenated	EC50	72h		Algae or other aquatic plants		43.94mg/l	2
	EC10(ECx)	72h		Algae or other aquatic plants		1.2mg/l	2
	LC50	96h	-	Fish		63mg/l	2
							ı
	Endpoint	Test Duration (hr)	Spe	cies		Value	Source
	EC50	48h	Crus	stacea		230mg/l	2
	EC50	72h	Alga	Algae or other aquatic plants		500mg/l	2
benzyl alcohol	NOEC(ECx)	336h Fis		1		5.1mg/l	2
	EC50	96h	Algae or other aquatic plants		76.828mg/l	2	
	LC50	96h	Fish	Fish		10mg/l	2
	Endpoint	Test Duration (hr)	Sp	ecies		Value	Source
	EC50	48h		ustacea		32mg/l	1
N-aminoethylpiperazine	EC50	72h		Algae or other aquatic plants		495mg/l	1
n-aminoetnyipiperazine	NOEC(ECx)	48h		Crustacea		18mg/l	1
	LC50	96h		Fish		>100mg/l	
	Endpoint	Test Duration (hr)	Species		Value		Source
	EC50	48h	Crustace	a	6.84m	g/l	2
4,4'-	ECEO	72h	Algon or	ather equation plants	. 444	42 200mg/l	2

# methylenebis(cyclohexylamine)

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48h	Crustacea	6.84mg/l	2
EC50	72h	Algae or other aquatic plants	>=141.42<=200mg/l	2
NOEC(ECx)	336h	Fish	>1mg/l	2
LC50	96h	Fish	68mg/l	2

# tris[(dimethylamino)methyl]phenol

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48h	Crustacea	>100mg/l	2
EC50	72h	Algae or other aquatic plants	2.8mg/l	2
EC10(ECx)	72h	Algae or other aquatic plants	~1.13mg/l	2

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LC50	96h	96h		Fish			2
Endpoint	Test Duration (hr)	Spec	cies	Value		Sou	rce
EC50	48h	Crus	tacea	0.14mg	/I	1	
EC50	72h	Algae	e or other aquatic plants	0.027-0	).033mg/l	4	
EC50	96h	Alga	e or other aquatic plants	0.027m	g/l	1	
NOEC(ECx)	672h	Crus	tacea	0.004m	g/L	1	

0.13mg/l

Legend:

4-nonylphenol, branched

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Fish

Very toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

LC50

For ethyleneamines

Adsorption of the ethyleneamines correlates closely with both the cation exchange capacity (CEC) and organic content of the soil. Soils with increased CEC and organic content exhibited higher affinities for these amines. This dependence of adsorption on CEC and organic content is most likely due to the strong electrostatic interaction between the positively charged amine and the negatively charged soil surface.

For Surfactants: Kow cannot be easily determined due to hydrophilic/hydrophobic properties of the molecules in surfactants. BCF value: 1-350.

Aquatic Fate: Surfactants tend to accumulate at the interface of the air with water and are not extracted into one or the other liquid phases.

96h

For Alkylphenols and their Ethoxylates, or Propoxylates (APE):

Environmental fate: Alkylphenols are found everywhere in the environmental, when released. Releases are generally as wastes; they are extensively used throughout industry and in the home. Alkylphenol ethoxylates are widely used surfactants in domestic and industrial products, which are commonly found in wastewater discharges and in sewage treatment plant effluents.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzyl alcohol	LOW	LOW
N-aminoethylpiperazine	HIGH	HIGH
4,4'- methylenebis(cyclohexylamine)	HIGH	HIGH
2,4,6- tris[(dimethylamino)methyl]phenol	HIGH	HIGH
4-nonylphenol, branched	HIGH	HIGH

### Bioaccumulative potential

Ingredient	Bioaccumulation
Polyoxypropylenediamine*	LOW (LogKOW = -0.34)
benzyl alcohol	LOW (LogKOW = 1.1)
N-aminoethylpiperazine	LOW (LogKOW = -1.57)
4,4'- methylenebis(cyclohexylamine)	LOW (LogKOW = 3.26)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.77)
4-nonylphenol, branched	LOW (BCF = 271)

### Mobility in soil

Ingredient	Mobility
benzyl alcohol	LOW (Log KOC = 15.66)
N-aminoethylpiperazine	LOW (Log KOC = 171.7)
4,4'- methylenebis(cyclohexylamine)	LOW (Log KOC = 672.4)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (Log KOC = 15130)
4-nonylphenol, branched	LOW (Log KOC = 56010)

### Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

# **SECTION 13 Disposal considerations**

### Waste treatment methods

# Product / Packaging disposal

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

### Otherwise:

• If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

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Not Available

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Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ▶ Treat and neutralise at an approved treatment plant.

# **SECTION 14 Transport information**

### **Labels Required**



# Marine Pollutant



Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

### Land transport (DOT)

14.1. UN number or ID number	2735	735			
14.2. UN proper shipping name	Amines, liquid, corrosiv	nines, liquid, corrosive, n.o.s. (contains N-aminoethylpiperazine)			
14.3. Transport hazard class(es)	Class Subsidiary Hazard				
14.4. Packing group	III	III			
14.5. Environmental hazard	Environmentally hazar	Environmentally hazardous			
14.6. Special precautions for user	Hazard Label Special provisions				

# Air transport (ICAO-IATA / DGR)

14.1. UN number	2735			
14.2. UN proper shipping name	Amines, liquid, corrosive, n.o.s. * (contains N-aminoethylpiperazine)			
	ICAO/IATA Class	8		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
ciass(cs)	ERG Code	8L		
14.4. Packing group				
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A3 A803	
	Cargo Only Packing Instructions		856	
	Cargo Only Maximum Qty / Pack		60 L	
14.6. Special precautions for user	Passenger and Cargo Packing In	structions	852	
4001	Passenger and Cargo Maximum	Qty / Pack	5 L	
	Passenger and Cargo Limited Qu	Y841		
	Passenger and Cargo Limited Ma	aximum Qty / Pack	1 L	

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2735		
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains N-aminoethylpiperazine)		
14.3. Transport hazard class(es)	IMDG Class  IMDG Subsidiary Hazard Not Applicable		
14.4. Packing group			
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	EMS Number F-A , S-B		

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Special provisions 223 274

Limited Quantities 5 L

### 14.7. Maritime transport in bulk according to IMO instruments

### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group	
Polyoxypropylenediamine*	Not Available	
formaldehyde/ benzenamine, hydrogenated	Not Available	
benzyl alcohol	Not Available	
N-aminoethylpiperazine	Not Available	
4,4'- methylenebis(cyclohexylamine)	Not Available	
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available	
4-nonylphenol, branched	Not Available	

# 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Polyoxypropylenediamine*	Not Available
formaldehyde/ benzenamine, hydrogenated	Not Available
benzyl alcohol	Not Available
N-aminoethylpiperazine	Not Available
4,4'- methylenebis(cyclohexylamine)	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
4-nonylphenol, branched	Not Available

## **SECTION 15 Regulatory information**

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

# Polyoxypropylenediamine\* is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# formaldehyde/ benzenamine, hydrogenated is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# benzyl alcohol is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US - Pennsylvania - Hazardous Substance List

US AIHA Workplace Environmental Exposure Levels (WEELs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

 ${\tt US\ Toxicology\ Excellence\ for\ Risk\ Assessment\ (TERA)\ Workplace\ Environmental\ Exposure\ Levels\ (WEEL)}$ 

# N-aminoethylpiperazine is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Corrosives

US - New Jersey Right to Know Hazardous Substances

US - Pennsylvania - Hazardous Substance List

US DOE Temporary Emergency Exposure Limits (TEELs)

US New York City Community Right-to-Know: List of Hazardous Substances

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

## 4,4'-methylenebis(cyclohexylamine) is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# 2,4,6-tris[(dimethylamino)methyl]phenol is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# 4-nonylphenol, branched is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification Requirements

US TSCA Section 4/12 (b) - Sunset Dates/Status

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### **Additional Regulatory Information**

Not Applicable

### **Federal Regulations**

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	Yes
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	Yes
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

# US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

# US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

CAS No	%[weight]	Name	
84852-15-3	5-10	4-nonylphenol, branched	
This information must be included in all SDSs that are copied and distributed for this material.			

# Additional Federal Regulatory Information

Not Applicable

# State Regulations

# US. California Proposition 65

None Reported

# **Additional State Regulatory Information**

Not Applicable

# **National Inventory Status**

Mational inventory otatas	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (Polyoxypropylenediamine*; formaldehyde/ benzenamine, hydrogenated; benzyl alcohol; N-aminoethylpiperazine; 4,4'-methylenebis(cyclohexylamine); 2,4,6-tris[(dimethylamino)methyl]phenol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (Polyoxypropylenediamine*; formaldehyde/ benzenamine, hydrogenated)
Japan - ENCS	No (formaldehyde/ benzenamine, hydrogenated)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	No (formaldehyde/ benzenamine, hydrogenated; 4,4'-methylenebis(cyclohexylamine))

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# BaseGuard Epoxy B

National Inventory	Status
Vietnam - NCI	Yes
Russia - FBEPH	No (formaldehyde/ benzenamine, hydrogenated)
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

# **SECTION 16 Other information**

Revision Date	05/09/2025
Initial Date	05/15/2024

### CONTACT POINT

\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

# Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

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