# **SAFETY DATA SHEET**

CRACKBOND LR-321 Part A (AMBER, BLUE, PURPLE)



### Section 1. Identification

GHS product identifier	: CRACKBOND LR-321 Part A
Other means of identification	:
Product type	:
Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	:
Supplier's details	:

Emergency telephone			
number (with hours of			
operation)			

### Section 2. Hazards identification

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OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Classification of the substance or mixture	: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	
GHS label elements		
Hazard pictograms		
Signal word	: Warning	
Hazard statements	<ul> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements		
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.</li> </ul>	



### Section 2. Hazards identification

Response	<ul> <li>P391 - Collect spillage.</li> <li>P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>
Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	:

Ingredient name	%	CAS number
Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin	≥75 - ≤90	25068-38-6
Oxirane, Mono[(C12-14-Alkyloxy)Methyl] Derivs.	≥5 - ≤10	68609-97-2
1,3-bis(2,3-Epoxypropoxy)-2,2-Dimethylpropane	5 - 10	17557-23-2
Proprietary ingredient 3	Proprietary	-
Proprietary ingredient 2	Proprietary	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

<u>Description of necessary first aid measures</u>			
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.		



### Section 4. First aid measures

If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

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Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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### Section 5. Fire-fighting measures

Special protective : Fire-fi equipment for fire-fighters appar

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protec	<u>tiv</u>	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	nt	ainment and cleaning up
Spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash

spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.





### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

		Eveneoure limite	
Ingredient name		Exposure limits	
Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin Oxirane, Mono[(C12-14-Alkyloxy)Methyl] Derivs. 1,3-bis(2,3-Epoxypropoxy)-2,2-Dimethylpropane Proprietary ingredient 3 Proprietary ingredient 2		None. None. None. None.	
Appropriate engineering controls	: Good general ventilation contaminants.	should be sufficient to control worker exposure to airborne	
Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.	
Individual protection measu	res		
Hygiene measures	eating, smoking and usin Appropriate techniques Contaminated work cloth	and face thoroughly after handling chemical products, before ng the lavatory and at the end of the working period. should be used to remove potentially contaminated clothing. ning should not be allowed out of the workplace. Wash efore reusing. Ensure that eyewash stations and safety workstation location.	
Eye/face protection	assessment indicates th gases or dusts. If conta	ng with an approved standard should be used when a risk is is necessary to avoid exposure to liquid splashes, mists, ct is possible, the following protection should be worn, unless s a higher degree of protection: chemical splash goggles.	
Skin protection			
Hand protection	worn at all times when h necessary. Considering during use that the glove noted that the time to bro glove manufacturers. In	ervious gloves complying with an approved standard should be andling chemical products if a risk assessment indicates this is the parameters specified by the glove manufacturer, check es are still retaining their protective properties. It should be eakthrough for any glove material may be different for different the case of mixtures, consisting of several substances, the bytes cannot be accurately estimated.	
Body protection		pment for the body should be selected based on the task being involved and should be approved by a specialist before	
Other skin protection		d any additional skin protection measures should be selected performed and the risks involved and should be approved by a g this product.	
Respiratory protection	appropriate standard or	d potential for exposure, select a respirator that meets the certification. Respirators must be used according to a ogram to ensure proper fitting, training, and other important	

## Section 9. Physical and chemical properties

Appearance		
Physical state	: Liquid.	
Color	: Straw. [Light]	
Odor	: Slight.	
Density	: 9.34 lbs/gal	
Odor threshold	: Not available.	



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### **Section 9. Physical and chemical properties**

рН	1	Not applicable.
Melting point	1	Not available.
Boiling point	1	Not available.
Flash point	1	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	1	Not applicable.
Lower and upper explosive (flammable) limits	1	Not applicable.
Vapor pressure	1	Not available.
Vapor density	:	Not available.
Specific gravity	:	1.121
Solubility	1	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (room temperature): 10 to 12 cm <sup>2</sup> /s (1000 to 1200 cPs)
Flow time (ISO 2431)	1	Not available.
Volatile organic compounds	1	See section 9 of part B for VOC content.

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Oxirane, Mono[(C12-14-Alkyloxy) Methyl] Derivs.	LD50 Oral	Rat	17100 mg/kg	-
1,3-bis(2,3-Epoxypropoxy)-2, 2-Dimethylpropane	LD50 Oral	Rat	4500 mg/kg	-





## Section 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name		Species	Score	Exposure	Observation
Reaction Product: Bisphenol-A- (Epichlorhydrin); Epoxy Resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	24 hours 500 µl 24 hours 2 mg	-
Oxirane, Mono[(C12-14-Alkyloxy)		Rabbit	-	24 hours 500 µl	-
Methyl] Derivs. Proprietary ingredient 3	Skin - Mild irritant	Rabbit	-	24 hours 500 µl	_
Sensitization					
There is no data available.					
Mutagenicity					
There is no data available.					
Carcinogenicity					
There is no data available.					
Reproductive toxicity					
There is no data available.					
Teratogenicity					
There is no data available.					
Specific target organ toxi					
There is no data available.					
Specific target organ toxi					
There is no data available.					
Aspiration hazard					
There is no data available.					
nformation on the likely outes of exposure	: Dermal contact. Eye c	ontact. Inhalation.	Ingestion.		
otential acute health effect	<u>cts</u>				
Eye contact	: Causes serious eye irr	itation.			
Inhalation	: No known significant e	effects or critical h	azards.		
Skin contact	: Causes skin irritation.	May cause an all	ergic skin rea	iction.	
Ingestion	: No known significant e	effects or critical h	azards.		
	hysical, chemical and toxic				
Eye contact	: Adverse symptoms ma pain or irritation	ay include the folio	owing:		
	watering				
	redness				
Inhalation	: No known significant e	effects or critical h	azards.		
Skin contact	: Adverse symptoms ma	ay include the follo	owing:		
	irritation				
	redness	<i></i>			
Ingestion	: No known significant e	effects or critical h	azards.		
elayed and immediate eff	ects and also chronic effec	ts from short an	d long term o	<u>exposure</u>	
<u>Short term exposure</u>					
Potential immediate	: No known significant e	effects or critical h	azards.		
effects					
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### Section 11. Toxicological information

Potential delayed effects	: No known significant effects or critical hazards.
<u>Long term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	ects
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Ī	Route	ATE value
	Oral	75000 mg/kg

## Section 12. Ecological information

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Reaction Product: Bisphenol-A- (Epichlorhydrin); Epoxy Resin	2.64 to 3.78	31	low
Oxirane, Mono[(C12-14-Alkyloxy) Methyl] Derivs.	3.77	160 to 263	low
Proprietary ingredient 3	2.7	-	low

#### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.





### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

**AERG** : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed



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### Section 15. Regulatory information

#### SARA 302/304

#### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** 

: Not applicable.

SARA 311/312

Classification

: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

#### **Composition/information on ingredients**

Name	Classification
Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
Oxirane, Mono[(C12-14-Alkyloxy)Methyl] Derivs.	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
1,3-bis(2,3-Epoxypropoxy)-2,2-Dimethylpropane	SKIN CORROSION/IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
Proprietary ingredient 3	SKIN CORROSION/IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
Proprietary ingredient 2	SKIN SENSITIZATION - Category 1

#### **SARA 313**

There is no data available.

#### State regulations

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed.

- **New Jersey**
- : None of the components are listed.
- **Pennsylvania**
- : None of the components are listed.
- California Prop. 65
  - No products were found.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.





### Section 16. Other information

#### Procedure used to derive the classification

Justification
Calculation method
Calculation method
Calculation method
Calculation method

#### <u>History</u>

Inc.
;

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# **SAFETY DATA SHEET**



### CRACKBOND® LR-321 Part B (AMBER, BLUE, PURPLE)

Section 1. Identification		
GHS product identifier	: CRACKBOND LR-321 Part B	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Identified uses	: Not available.	
Supplier's details	: Adhesives Technology Corp. 450 East Copans Road, Pompano Beach, FL 33064 (800) 892-1880 (800) 362-3320 www.atcepoxy.com	
Emergency telephone number (with hours of operation)	: CHEM TEL: 800-255-3924 24/7	

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1         </li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>H302 - Harmful if swallowed.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H360 - May damage fertility or the unborn child.</li> <li>H335 - May cause respiratory irritation.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>



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### Section 2. Hazards identification

Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical attention.</li> <li>P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.</li> <li>P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.</li> <li>P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical attention.</li> <li>P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.</li> </ul>
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

available.

Substance/mixture	:	Mixture
Other means of	:	Not avai
identification		

#### **CAS number/other identifiers**

CAS number	: Not applicable.
Product code	: Not available.

Ingredient name	%	CAS number
Fatty Acids, Tall-oil, Reaction Products With Tetraethylenepentamine	≥10 - ≤25	68953-36-6
4-Nonylphenol, Branched	≥10 - ≤25	84852-15-3
2-Piperazin-1-Ylethylamine	≥10 - ≤25	140-31-8
Benzyl alcohol	≥5 - ≤10	100-51-6
3-Aminomethyl-3,5,5-Trimethylcyclohexylamine	≥5 - ≤10	2855-13-2
Trade Secret 4	≥3 - ≤5	-
Trade Secret 3	≥3 - ≤5	-
3,6-Diazaoctanethylenediamin	≥1 - ≤3	112-24-3
Trade Secret 5	≥1 - ≤3	-
Trade Secret 1	≥1 - ≤2	-
Trade Secret 8	≥1 - ≤3	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



### Section 3. Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

	Description of n	necessary first	aid r	<u>neasures</u>
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Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effe	ects, acute and delayed	
Potential acute health effects		
Eye contact	: Causes serious eye damage.	
Inhalation	: May cause respiratory irritation.	
Skin contact	: Causes severe burns. May cause an allergic skin reaction.	
Ingestion	: Harmful if swallowed.	
Over-exposure signs/symptoms		
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations	





### Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or

before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water





### Section 6. Accidental release measures

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

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### Methods and materials for containment and cleaning up

Spill: Stop leak if without risk. Move containers from spill area. Approach release from<br/>upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash<br/>spillages into an effluent treatment plant or proceed as follows. Contain and collect<br/>spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or<br/>diatomaceous earth and place in container for disposal according to local regulations<br/>(see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated<br/>absorbent material may pose the same hazard as the spilled product. Note: see Section<br/>1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



### Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ing	redient name			Exposure limits	
4-No 2-Pi Ben: 3-Ar Trac	y Acids, Tall-oil, Reaction Produc onylphenol, Branched perazin-1-Ylethylamine zyl alcohol ninomethyl-3,5,5-Trimethylcyclol le Secret 4 le Secret 3			None. None. AIHA WEEL (United States, 10/2011). TWA: 10 ppm 8 hours. None. None. AIHA WEEL (United States, 10/2011). Absorbed through skin. Skin sensitizer.	
3,6-1	Diazaoctanethylenediamin			TWA: 5 mg/m <sup>3</sup> 8 hours. AIHA WEEL (United States, 10/2011). Absorbed through skin. TWA: 1 ppm 8 hours.	
Trac	le Secret 5 le Secret 1 le Secret 8			None. None. None.	
Appr contr	opriate engineering rols		or mist, use process enclosu to keep worker exposure to limits.	tilation. If user operations generate dust, fumes, gas, vapor ures, local exhaust ventilation or other engineering controls airborne contaminants below any recommended or statutory	
Envir contr	ronmental exposure rols	<b>cposure</b> : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.			
<u>Indiv</u>	idual protection measur	<u>es</u>			
Hyg	iene measures	:	eating, smoking and using the Appropriate techniques show Contaminated work clothing	face thoroughly after handling chemical products, before he lavatory and at the end of the working period. uld be used to remove potentially contaminated clothing. should not be allowed out of the workplace. Wash e reusing. Ensure that eyewash stations and safety rkstation location.	
Eye	/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.		
<u>Skir</u>	<u>n protection</u>				
	nd protection	:	worn at all times when hand necessary. Considering the during use that the gloves an noted that the time to breakt glove manufacturers. In the	bus gloves complying with an approved standard should be ling chemical products if a risk assessment indicates this is parameters specified by the glove manufacturer, check re still retaining their protective properties. It should be through for any glove material may be different for different case of mixtures, consisting of several substances, the s cannot be accurately estimated.	
Во	dy protection	:		ent for the body should be selected based on the task being blved and should be approved by a specialist before	
Ot	her skin protection	:		ny additional skin protection measures should be selected formed and the risks involved and should be approved by a is product.	



### Section 8. Exposure controls/personal protection

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Respiratory protection
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: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

Appearance		
Physical state	d.	
Color	w to light amber. Blue. Purple.	
Odor	nonia fishy.	
Density	os/gal	
Odor threshold	available.	
рН	applicable.	
Melting point	available.	
Boiling point	available.	
Flash point	applicable.	
Evaporation rate	available.	
Flammability (solid, gas)	applicable.	
Lower and upper explosive (flammable) limits	applicable.	
Vapor pressure	available.	
Vapor density	available.	
Specific gravity	8 to 0.965	
Solubility	available.	
Partition coefficient: n- octanol/water	available.	
Auto-ignition temperature	applicable.	
Decomposition temperature	available.	
Volatile organic compounds	L (tested per EPA CFR 40, Par //L (tested per EPA CFR 40, Pa	t 63, Subpart PPPP, Appendix A) art 60, Method 24)
Viscosity	matic (room temperature): 1.3	to 2 cm²/s (130 to 200 cPs)
•		10 2 CHI7S (130 10 200 CPS)

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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### Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4-Nonylphenol, Branched	LD50 Oral	Rat	1300 mg/kg	-
Benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
-	LD50 Oral	Rat	1230 mg/kg	-
Trade Secret 3	LD50 Oral	Rat	3990 mg/kg	-
3,6-Diazaoctanethylenediamin	LD50 Dermal	Rabbit	805 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-
Trade Secret 1	LD50 Dermal	Rat	2250 mg/kg	-
	LD50 Oral	Rat	3 g/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4-Nonylphenol, Branched	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 mg	-
2-Piperazin-1-Ylethylamine	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 mg	-
Benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16 mg	-
,	Skin - Moderate irritant	Pig	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
Trade Secret 3	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eves - Moderate irritant	Rabbit	-	5 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Severe irritant	Rabbit	-	495 mg	-
3,6-Diazaoctanethylenediamin	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eves - Severe irritant	Rabbit	-	49 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Severe irritant	Rabbit	-	490 mg	-
Trade Secret 1	Eyes - Severe irritant	Rabbit	-	50 mg	-
	Skin - Mild irritant	Rabbit	-	445 mg	-

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### **Carcinogenicity**

There is no data available.

#### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
	0,		Respiratory tract irritation Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

#### There is no data available.

#### Aspiration hazard

Name	Result
Trade Secret 4	ASPIRATION HAZARD - Category 1





Section 11. Toxic	olo	gical information
Information on the likely routes of exposure	:	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effect	t <u>s</u>	
Eye contact	:	Causes serious eye damage.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	Causes severe burns. May cause an allergic skin reaction.
Ingestion	1	Harmful if swallowed.
Symptoms related to the ph	ysic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effe	cts a	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	-	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.
<u>Long term exposure</u>		
Potential immediate effects	-	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.
Potential chronic health ef	fects	<u>è</u>
General	1	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	:	May damage the unborn child.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.

Fertility effects : May damage fertility.



### Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	1054.2 mg/kg
Dermal	3030.3 mg/kg
Inhalation (vapors)	128.5 mg/L

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure	
4-Nonylphenol, Branched	Acute EC50 0.03 mg/L Marine water	Algae - Skeletonema costatum	72 hours	
	Acute EC50 0.027 mg/L Marine water	Algae - Skeletonema costatum	96 hours	
	Acute EC50 137 µg/L Marine water	Crustaceans - Eohaustorius estuarius - Adult	48 hours	
	Acute LC50 17 µg/L Marine water	Fish - Pleuronectes americanus - Larvae	96 hours	
	Chronic EC10 0.012 mg/L Marine water	Algae - Skeletonema costatum	96 hours	
	Chronic NOEC 5 µg/L Fresh water	Crustaceans - Gammarus fossarum - Adult	21 days	
	Chronic NOEC 7.4 µg/L Fresh water	Fish - Pimephales promelas - Embryo	33 days	
2-Piperazin-1-Ylethylamine	Acute LC50 2190000 µg/L Fresh water	Fish - Pimephales promelas	96 hours	
Benzyl alcohol	Acute LC50 460000 µg/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
3-Aminomethyl-3,5, 5-Trimethylcyclohexylamine	Acute EC50 17.4 mg/L Fresh water	Daphnia - Daphnia magna	48 hours	
3,6-Diazaoctanethylenediamin	Acute EC50 3700 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours	
	Acute LC50 33900 µg/L Fresh water	Daphnia - Daphnia magna	48 hours	

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
4-Nonylphenol, Branched	5.4	740	high
2-Piperazin-1-Ylethylamine	-1.48	-	low
Benzyl alcohol	0.87	-	low
3-Aminomethyl-3,5,	0.99	-	low
5-Trimethylcyclohexylamine			
Trade Secret 4	1.34	-	low
3,6-Diazaoctanethylenediamin	-1.66 to -1.4	-	low
Trade Secret 1	-1.46	<0.2	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

Other adverse effects

: Not available.

: No known significant effects or critical hazards.





### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN2735	UN2735	UN2735
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (4-Nonylphenol, Branched, Trade Secret 3)	AMINES, LIQUID, CORROSIVE, N.O.S. (4-Nonylphenol, Branched, Trade Secret 3)	AMINES, LIQUID, CORROSIVE, N.O.S. (4-Nonylphenol, Branched, Trade Secret 3)
Transport hazard class(es)	8 Connector	8	8
Packing group	III	Ш	III
Environmental hazards	No.	Yes.	No.
Additional information	<b><u>Remarks</u></b> Limited Quantity Exemption For corrosive materials in Packing Group III, inner packaging's not over 5.0 L (1.3 gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Remarks</u> Limited Quantity Exemption For corrosive materials in Packing Group III, inner packaging's not over 5.0 L (1.3 gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

**AERG :** 153

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: Not available. Transport in bulk according to Annex II of MARPOL and the IBC Code





### Section 15. Regulatory information

Ŭ	5
U.S. Federal regulations	: TSCA 5(a)2 final significant new use rules: Trade Secret 8
	TSCA 8(a) PAIR: 4-Nonylphenol, Branched
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	TSCA 12(b) one-time export: 4-Nonylphenol, Branched; Trade Secret 8
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Water Act (CWA) 307: Trade Secret 7
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
SARA 311/312	THE THE PARTY OF T
Classification	: Immediate (acute) health hazard Delayed (chronic) health hazard
Composition/information	

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Fatty Acids, Tall-oil, Reaction Products With Tetraethylenepentamine	≥10 - ≤25	No.	No.	No.	Yes.	No.
4-Nonylphenol, Branched	≥10 - ≤25	No.	No.	No.	Yes.	Yes.
2-Piperazin-1-Ylethylamine	≥10 - ≤25	No.	No.	No.	Yes.	No.
Benzyl alcohol	≥5 - ≤10	No.	No.	No.	Yes.	No.
3-Aminomethyl-3,5, 5-Trimethylcyclohexylamine	≥5 - ≤10	No.	No.	No.	Yes.	No.
Trade Secret 4	≥3 - ≤5	No.	No.	No.	Yes.	No.
Trade Secret 3	≥3 - ≤5	No.	No.	No.	Yes.	No.
3,6-Diazaoctanethylenediamin	≥1 - ≤3	No.	No.	No.	Yes.	No.
Trade Secret 5	≥1 - ≤3	No.	No.	No.	Yes.	No.
Trade Secret 1	≥1 - ≤2	No.	No.	No.	Yes.	Yes.
Trade Secret 8	≥1 - ≤3	No.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	4-Nonylphenol, Branched	84852-15-3	≥10 - ≤25
Supplier notification	4-Nonylphenol, Branched	84852-15-3	≥10 - ≤25



### Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations	
Massachusetts	<ul> <li>The following components are listed: 2-Piperazin-1-Ylethylamine; Benzyl alcohol; 3,</li> <li>6-Diazaoctanethylenediamin; Trade Secret 3; Trade Secret 1</li> </ul>
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: 2-Piperazin-1-Ylethylamine; Trade Secret 5;</li> <li>3-Aminomethyl-3,5,5-Trimethylcyclohexylamine; 3,6-Diazaoctanethylenediamin; Trade Secret 3; Trade Secret 1</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: 2-Piperazin-1-Ylethylamine; Benzyl alcohol; 3,</li> <li>6-Diazaoctanethylenediamin; Trade Secret 3; Trade Secret 1</li> </ul>
California Pron. 65	

#### California Prop. 65

No products were found.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1B	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

#### **History**

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Version	: 1.1	
Prepared by	: KMK Regulato	bry Services Inc.

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