According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.04.2018

### **CLS Hardener**

### **SECTION 1: Identification**

## Product identifier

Product name: CLS Hardener Product code: CLS-2

# Recommended use of the product and restriction on use

Relevant identified uses: Liquid curing agent for epoxy resin Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

### Manufacturer or supplier details

Manufacturer: North America Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A. 310-882-2120 safety@entropyresin.com

# Emergency telephone number: North America CHEMTREC 800-424-9300 US 703-527-3887 International

### SECTION 2: Hazard(s) identification

#### **GHS classification:**

Serious eye damage, category 1 Skin corrosion, category 1B Skin sensitization, category 1 Respiratory sensitization, category 1 Acute toxicity (oral), category 4 Specific target organ toxicity - repeated exposure, category 1 Reproductive toxicity, category 2

# Label elements

### Hazard pictograms:



#### Signal word: Danger

### Hazard statements:

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H302 Harmful if swallowed.

H372 Causes damage to organs through prolonged or repeated exposure.

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**CLS Hardener** 

H361 Suspected of damaging fertility or the unborn child.

# Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P264 Wash skin and eyes thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P284 Wear respiratory protection.

P285 In case of inadequate ventilation wear respiratory protection.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P310 Immediately call a POISON CENTER or doctor/physician.

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

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

P363 Wash contaminated clothing before reuse

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

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P330 Rinse mouth

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell

P308+P313 If exposed or concerned: Get medical advice/attention

P405 Store locked up.

P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 100-51-6	Benzyl Alcohol	0.1-8
CAS number: 9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	28-30
CAS number: 140-31-8	1-Piperazineethanamine	<1
CAS number: 27344-41-8	Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1- ethenediyl)bis-, sodium salt (1:2)	<0.01
CAS number: 25620-58-0	Trimethylhexamethylenediamine	20-25

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### **CLS Hardener**

CAS number: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	<8
CAS number: 110-85-0	Piperazine	0.1-2
CAS number: 68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	2-15
CAS number: 111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	10-14
CAS number: 103-50-4	Dibenzyl ether	<0.1
CAS number: 1761-71-3	4,4'-Methylenebis(cyclohexylamine)	14-16
CAS number: 17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	<0.01

### Additional Information: None

# **SECTION 4: First aid measures**

### **Description of first aid measures**

### **General notes:**

Not determined or not applicable.

### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway Get medical advice/attention if you feel unwell Move exposed individual to fresh air Immediately call a POISON CONTROL CENTER or seek medical attention

# After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention Immediately remove all contaminated clothing Wash affected area with soap and water Immediately call a POISON CONTROL CENTER or seek medical attention

### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes Remove contact lenses, if present and easy to do Continue rinsing Get medical advice/attention Remove contact lens(es) if able to do so during rinsing Immediately call a POISON CONTROL CENTER or seek medical attention

### After swallowing:

Rinse mouth and then drink plenty of water Do not induce vomiting Get medical advice/attention if you feel unwell Immediately call a POISON CONTROL CENTER or seek medical attention

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

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Not determined or not applicable.

### Delayed symptoms and effects:

Not determined or not applicable.

### Immediate medical attention and special treatment

#### Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

#### SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8 Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion Shut off sources of ignition Carbon monoxide and carbon dioxide may form upon combustion

### **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

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

### Methods and material for containment and cleaning up:

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

Dispose of contents / container in accordance with local regulations

### **Reference to other sections:**

Not determined or not applicable.

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

# Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor. Use only with adequate ventilation.

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### **CLS Hardener**

### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### **Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Benzyl Alcohol	100-51-6	WEEL TWA 10.0 ppm
ACGIH	Piperazine		8-Hour Exposure Limit (TLV-TWA): 0.03 ppm

### **Biological limit values:**

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

Information on monitoring procedures:

Not determined or not applicable.

### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

### Personal protection equipment

### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

Select glove material impermeable and resistant to the substance.

### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Clear to light yellow liquid
Odor	Ammoniacal
Odor threshold	Not determined or not available.
рН	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	> 100°C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.

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Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	920 - 1000 kg/m³ at 25 °C (typical)
Relative density	1.0
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	0.05 - 0.2 Pa.s at 25°C
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

## Other information

## SECTION 10: Stability and reactivity

# Reactivity:

Does not react under normal conditions of use and storage.

### **Chemical stability:**

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

None known.

# Incompatible materials:

None known.

# Hazardous decomposition products:

None known.

# **SECTION 11: Toxicological information**

## Acute toxicity

Assessment: Harmful if swallowed **Product data:** No data available.

## Substance data:

Name	Route	Result
3-aminomethyl-3,5,5- trimethylcyclohexylamine	oral	LD50 - Rat - 1,030 mg/kg
Benzyl Alcohol	oral	LD50 - Rat - 1,230 mg/kg
	inhalation	LD50 - Rat - > 4,178 mg/m <sup>3</sup>
1,4,7,10,13,16- Hexaoxacyclooctadecane	oral	LD50 - Guinea pig: 59 mg/kg
1-Piperazineethanamine	oral	LD50 - Chicken - 1,500 mg/kg

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# **CLS Hardener**

Name	Route	Result
4,4'- Methylenebis(cyclohexylamine)	oral	LD50 - Rat - 380 mg/kg

## Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

# Product data:

No data available.

### Substance data:

Name	Result
alpha-(2-Aminomethylethyl)- omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2- ethanediyl))	Corrosive to the skin.
3-aminomethyl-3,5,5- trimethylcyclohexylamine	Corrosive to the skin.
Cyclohexanemethanamine, 5- amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Irritating to the skin.
1-Piperazineethanamine	Corrosive to the skin.
Piperazine	Causes skin damage
Trimethylhexamethylenediami ne	Causes skin burns
Phenol, 4,4'-(1- methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6- hexanediamine	Corrosive to the skin.
4,4'- Methylenebis(cyclohexylamine)	Corrosive to the skin.

# Serious eye damage/irritation

# Assessment: Causes serious eye damage

### **Product data:**

No data available.

# Substance data:

Name	Result
Cyclohexanemethanamine, 5- amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Irritating effect on the eyes.

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# **CLS Hardener**

Name	Result
Phenol, 4,4'-(1- methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6- hexanediamine	Corrosive effect on the eyes.
4,4'- Methylenebis(cyclohexylamine)	Corrosive effect on the eyes.
Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diy ldi-2,1- ethenediyl)bis-, sodium salt (1:2)	Irritating effect on the eyes.

### **Respiratory or skin sensitization**

**Assessment:** May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled

### **Product data:**

No data available.

# Substance data:

Name	Result
3-aminomethyl-3,5,5- trimethylcyclohexylamine	Sensitization possible through skin contact.
Cyclohexanemethanamine, 5- amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Sensitization possible through skin contact.
1-Piperazineethanamine	Sensitization possible through skin contact.
Piperazine	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Trimethylhexamethylenediami ne	Sensitization possible through skin contact.
Phenol, 4,4'-(1- methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6- hexanediamine	Sensitization possible through skin contact.
4,4'- Methylenebis(cyclohexylamine)	Sensitization possible through skin contact.

### Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed. **National Toxicology Program (NTP):** None of the ingredients are listed.

## Germ cell mutagenicity

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

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### **CLS Hardener**

Substance data: No data available.

### Reproductive toxicity

Assessment: Suspected of damaging fertility or the unborn child

### Product data:

No data available.

Substance data:

Name	Result
Piperazine	Suspected of damaging fertility or the unborn child.

## Specific target organ toxicity (single exposure)

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

### Product data:

No data available.

Substance data: No data available.

### Specific target organ toxicity (repeated exposure)

Assessment: Causes damage to organs through prolonged or repeated exposure

### Product data:

No data available.

# Substance data:

Name	Result
4,4'-	Ingestion - May cause damage to organs through prolonged or repeated
Methylenebis(cyclohexylamine)	exposure Liver, Musculo-skeletal system

### **Aspiration toxicity**

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

Product data:

No data available.

Substance data: No data available.

### Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

# Other information:

No data available.

## **SECTION 12: Ecological information**

### Acute (short-term) toxicity

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

Product data: No data available.

Sub	stance	data:

Name	Result
3-aminomethyl-3,5,5- trimethylcyclohexylamine	LC50 - Daphnia magna (Water flea) - 17.4 mg/L - 48 h
4,4'- Methylenebis(cyclohexylamine)	EC50 - Daphnia magna - 7.07 mg/L - 48 h

### Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

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### **CLS Hardener**

### Persistence and degradability

Product data: No data available. Substance data: No data available.

### **Bioaccumulative potential**

Product data: No data available.

Substance data: No data available.

## Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

## **SECTION 13: Disposal considerations**

### **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	2735	
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Isophorone diamine)	
UN transport hazard class(es)	8	
Packing group	III	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	

## International Maritime Dangerous Goods (IMDG)

UN number	2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Isophorone diamine)
UN transport hazard class(es)	8
Packing group	111
Environmental hazards	Marine Pollutant
Special precautions for user	None
EmS number	F-A, S-B
Excepted quantities	30mL inner pckg; 1L outer pckg
Limited quantity	5L

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

UN number	2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Isophorone diamine)

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# **CLS Hardener**

UN transport hazard class(es)	8
Packing group	Ш
Environmental hazards	Marine Pollutant
Special precautions for user	None
Excepted quantities	30mL inner pckg; 1L outer pckg
Limited quantity	1L

# **SECTION 15: Regulatory information**

# United States regulations

# Inventory listing (TSCA):

<u> </u>		_
9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	Listed
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Listed
100-51-6	Benzyl Alcohol	Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Listed
140-31-8	1-Piperazineethanamine	Listed
110-85-0	Piperazine	Listed
25620-58-0	Trimethylhexamethylenediamine	Listed
111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)- trimethyl-1,6-hexanediamine	Listed
103-50-4	Dibenzyl ether	Listed
1761-71-3	4,4'-Methylenebis(cyclohexylamine)	Listed
17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	Listed
27344-41-8	Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1- ethenediyl)bis-, sodium salt (1:2)	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

## SARA Section 313 toxic chemicals:

9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	Not Listed
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Not Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
140-31-8	1-Piperazineethanamine	Not Listed
110-85-0	Piperazine	Not Listed
25620-58-0	Trimethylhexamethylenediamine	Not Listed

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111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)- trimethyl-1,6-hexanediamine	Not Listed
103-50-4	Dibenzyl ether	Not Listed
1761-71-3	4,4'-Methylenebis(cyclohexylamine)	Not Listed
17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	Not Listed
27344-41-8	Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1- ethenediyl)bis-, sodium salt (1:2)	Not Listed

# **CERCLA:** Not determined.

**RCRA:** Not determined.

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

## Massachusetts Right to Know:

9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	Not Listed
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Not Listed
100-51-6	Benzyl Alcohol	Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
140-31-8	1-Piperazineethanamine	Listed
110-85-0	Piperazine	Listed
25620-58-0	Trimethylhexamethylenediamine	Not Listed
111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)- trimethyl-1,6-hexanediamine	Not Listed
103-50-4	Dibenzyl ether	Not Listed
1761-71-3	4,4'-Methylenebis(cyclohexylamine)	Not Listed
17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	Not Listed
27344-41-8	Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1- ethenediyl)bis-, sodium salt (1:2)	Not Listed

### New Jersey Right to Know:

9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	Not Listed
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Listed
100-51-6	Benzyl Alcohol	Not Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
140-31-8	1-Piperazineethanamine	Listed
110-85-0	Piperazine	Listed
25620-58-0	Trimethylhexamethylenediamine	Listed

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111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)- trimethyl-1,6-hexanediamine	Not List
103-50-4	Dibenzyl ether	Not List
1761-71-3	4,4'-Methylenebis(cyclohexylamine)	Not List
17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	Not List
27344-41-8	Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1- ethenediyl)bis-, sodium salt (1:2)	Not List
w York Right to	-	
9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	Not List
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	List
100-51-6	Benzyl Alcohol	Not List
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not List
140-31-8	1-Piperazineethanamine	List
110-85-0	Piperazine	List
25620-58-0	Trimethylhexamethylenediamine	List
111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)- trimethyl-1,6-hexanediamine	Not List
103-50-4	Dibenzyl ether	Not List
1761-71-3	4,4'-Methylenebis(cyclohexylamine)	Not List
17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	Not List
27344-41-8	Benzenesulfonic acid, 2,2'-([1,1'-biphenyl]-4,4'-diyldi-2,1- ethenediyl)bis-, sodium salt (1:2)	Not List
nnsylvania Righ	t to Know:	•
9046-10-0	alpha-(2-Aminomethylethyl)-omega-(2- aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	Not List
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Not List
100-51-6	Benzyl Alcohol	List
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not List
140-31-8	1-Piperazineethanamine	List
110-85-0	Piperazine	List
25620-58-0	Trimethylhexamethylenediamine	Not List
111850-23-8	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2- (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)- trimethyl-1,6-hexanediamine	Not List

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103-50-4	Dibenzyl ether	Not
		Listed
1761-71-3	4,4'-Methylenebis(cyclohexylamine)	Not Listed
17455-13-9	1,4,7,10,13,16-Hexaoxacyclooctadecane	Not Listed

California Proposition 65: None of the ingredients are listed.

# **SECTION 16: Other information**

### Abbreviations and Acronyms: None

### **Disclaimer:**

This product has been classified in accordance with 29 CFR 1910.1200 and the SDS contains all the information required by 29 CFR 1910.1200. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. **NFPA:** 3-0-0

# HMIS: 3-0-0 Initial preparation date: 04.04.2018

## **End of Safety Data Sheet**