

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/15/2020

# **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : 3800-B
Product code : 3800-B

## 1.2. Recommended use and restrictions on use

No additional information available

## 1.3. Supplier

Protective Industrial Polymers 7875 Bliss Parkway North Ridgeville, Ohio 44039 - USA-Ohio T 440-327-0015 www.protectpoly.com

## 1.4. Emergency telephone number

Emergency number : CHEMTREC: 800-424-9300 (Outside USA) 703-527-3887.

## SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H371	May cause damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
	H314 H317 H371 H400

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction

H371 - May cause damage to organs H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P260 - Do not breathe vapors

P261 - Avoid breathing vapors

P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing must not be allowed out of the workplace

12/15/2020 (Date of issue) US - en 1/13

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P273 - Avoid release to the environment

P280 - Wear protective clothing

P301+P312 - If swallowed: Call a POISON CENTER, a doctor if symptoms persist. if you feel unwell

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P302+P352 - If on skin: Wash with plenty of soap

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

 ${\tt P305+P351+P338-If\ in\ eyes:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact}$ 

lenses, if present and easy to do. Continue rinsing

P308+P311 - If exposed or concerned: Call a POISON CENTER

P310 - Immediately call a doctor if symptoms persist.

P330 - Rinse mouth

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

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

## 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
CA-2390	-	55	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Skin Sens. 1, H317 STOT SE 2, H371
Phenol,4-nonyl-,branched	CAS-No.: 84852-15-3	13.75 – 27.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Polyetherdiamine	-	13.75 – 27.5	Not classified
O,O'-Bis(2-aminopropyl)polypropyleneglycol	CAS-No.: 9046-10-0	11.4 – 19	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Xylene Formaldehyde Resin	CAS-No.: 26139-75-3	> 14.355	Skin Irrit. 2, H315

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
1-Piperazine ethanamine	CAS-No.: 140-31-8	5.5 – 11	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314
(4,4'-diaminodicyclohexyl)methane	CAS-No.: 1761-71-3	2.75 – 5.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Skin Sens. 1B, H317 STOT SE 2, H371 Aquatic Acute 2, H401
Benzenemethanol	CAS-No.: 100-51-6	4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

## **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general :	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice
	(show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately

call a poison center or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. If skin irritation or rash occurs: Consult a doctor/medical service. Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. Gently wash with plenty

of soap and water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel

unwell. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries

: Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation

: May cause an allergic skin reaction.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

## 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

12/15/2020 (Date of issue) US - en 3/13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Emergency procedures** Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

> smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Avoid contact during pregnancy/while nursing. Avoid breathing

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Hygiene measures

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

clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

: Comply with applicable regulations. Technical measures

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### 3800-B

No additional information available

12/15/2020 (Date of issue) US - en 4/13

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### CA-2390

No additional information available

#### Phenol,4-nonyl-,branched (84852-15-3)

No additional information available

#### 1-Piperazine ethanamine (140-31-8)

No additional information available

#### (4,4'-diaminodicyclohexyl)methane (1761-71-3)

No additional information available

#### **Polyetherdiamine**

No additional information available

#### O,O'-Bis(2-aminopropyl)polypropyleneglycol (9046-10-0)

No additional information available

#### Xylene Formaldehyde Resin (26139-75-3)

No additional information available

#### Benzenemethanol (100-51-6)

No additional information available

## 8.2. Appropriate engineering controls

No additional information available

## 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Wash ... thoroughly after handling.

#### Hand protection:

Wear protective gloves

#### Eye protection:

Chemical goggles or face shield

#### Skin and body protection:

Wear suitable protective clothing

Type

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

#### Other information:

Do not eat, drink or smoke during use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid. Colorless to pale yellow liquid.

Color

Boiling point :  $> 222 \,^{\circ}$ C Flash point :  $> 150 \,^{\circ}$ C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) · Non flammable Vapor pressure : No data available Relative vapor density at 20 °C No data available Relative density No data available Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available **Explosion limits** No data available No data available Explosive properties Oxidizing properties No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrosive vapors.

#### 10.2. Chemical stability

Not established.

# 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 11: Toxicological information**

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

0000 B
--------

ATE US (oral) 1895.912 mg/kg body weight

## **Phenol,4-nonyl-,branched (84852-15-3)**

LD50 oral rat 1412 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral)

#### 1-Piperazine ethanamine (140-31-8)

LD50 oral rat	2097 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	866 mg/kg bw/day (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))

## (4,4'-diaminodicyclohexyl)methane (1761-71-3)

LD50 oral rat	380 mg/kg (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	2110 mg/kg body weight (EPA OPP 81-2, 24 h, Rabbit, Male / female, Experimental value, Dermal)

## Benzenemethanol (100-51-6)

LD50 oral rat	1620 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 inhalation rat (mg/l)	> 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause serious eye damage Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause damage to organs.

## (4,4'-diaminodicyclohexyl)methane (1761-71-3)

Specific target organ toxicity – single exposure May cause damage to organs (oral).

Specific target organ toxicity – repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

12/15/2020 (Date of issue) US - en 7/13

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Phenol,4-nonyl-,branched (84852-15	-3)
LC50 - Fish [1]	0.08 mg/l (ASTM E729-96, 96 h, Hybopsis monacha, Static system, Fresh water, Experimenta value, Nominal concentration)
EC50 - Daphnia [1]	0.084 mg/l (ASTM E729-88, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)
1-Piperazine ethanamine (140-31-8)	
LC50 - Fish [1]	2190 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value)
EC50 - Daphnia [1]	58 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, GLP)
ErC50 algae	> 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Fresh water, Experimental value, GLP)
(4,4'-diaminodicyclohexyl)methane (	(1761-71-3)
LC50 - Fish [1]	68 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Daphnia [1]	6.84 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	140 – 200 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Benzenemethanol (100-51-6)	
LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Daphnia [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

3800-B		
Persistence and degradability	Not established.	
Phenol,4-nonyl-,branched (84852-15-3)		
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.	
1-Piperazine ethanamine (140-31-8)		
Persistence and degradability	Not readily biodegradable in water.	
Chemical oxygen demand (COD)	0.56 g O₂/g substance	
(4,4'-diaminodicyclohexyl)methane (1761-71-3)		
Persistence and degradability	Not readily biodegradable in water.	
Benzenemethanol (100-51-6)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.6 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance	
ThOD	2.5 g O <sub>2</sub> /g substance	

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# 12.3. Bioaccumulative potential

3800-B	
Bioaccumulative potential	Not established.
Phenol,4-nonyl-,branched (84852-15-3)	
BCF - Fish [1]	1200 – 1300 (OECD 305: Bioconcentration: Flow-Through Fish Test, 16 day(s), Gasterosteus aculeatus, Flow-through system, Salt water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	5.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
1-Piperazine ethanamine (140-31-8)	
BCF - Fish [1]	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	-1.48 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
(4,4'-diaminodicyclohexyl)methane (1761-7	71-3)
BCF - Fish [1]	< 60 (OECD 305: Bioconcentration: Flow-Through Fish Test, 60 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)
Partition coefficient n-octanol/water (Log Pow)	2.03 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Benzenemethanol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

## 12.4. Mobility in soil

Phenol,4-nonyl-,branched (84852-15-3)		
Partition coefficient n-octanol/water (Log Koc)	4.35 – 5.69 (log Koc, Other, Experimental value, GLP)	
Ecology - soil	Adsorbs into the soil.	
1-Piperazine ethanamine (140-31-8)		
Partition coefficient n-octanol/water (Log Koc)	4.57 (log Koc, Read-across, GLP)	
Ecology - soil	Low potential for mobility in soil.	
(4,4'-diaminodicyclohexyl)methane (1761-71-3)		
Partition coefficient n-octanol/water (Log Koc)	3.25 (log Koc, Other, Calculated value)	
Ecology - soil	Low potential for mobility in soil.	
Benzenemethanol (100-51-6)		
Surface tension	39 mN/m (20 °C)	
Ecology - soil	No (test)data on mobility of the substance available.	

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to an authorized waste collection point.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

#### **14.1. UN number**

DOT NA no. : UN2735
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Amines, liquid, corrosive, n.o.s.

Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 8
Hazard labels (DOT) : 8



#### TDG

Transport hazard class(es) (TDG) : Not applicable

#### **IMDG**

Transport hazard class(es) (IMDG) : Not applicable

## IATA

Transport hazard class(es) (IATA) : Not applicable

# 14.4. Packing group

Packing group (DOT) : II

Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes



Other information : No supplementary information available.

## 14.6. Special precautions for user

DOT

UN-No.(DOT) : UN2735

DOT Special Provisions (49 CFR 172.102) : B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are

not authorized.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

: 154 : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 : 1 L

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Packaging Non Bulk (49 CFR 173.xxx)

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 52 - Stow "separated from" acids

TDG

Emergency Response Guide (ERG) Number : 153

**IMDG** 

No data available

ΙΔΤΔ

No data available

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

# **15.1. US Federal regulations**

#### Phenol,4-nonyl-, branched (84852-15-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 1-Piperazine ethanamine (140-31-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### (4,4'-diaminodicyclohexyl)methane (1761-71-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# O,O'-Bis(2-aminopropyl)polypropyleneglycol (9046-10-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

## Xylene Formaldehyde Resin (26139-75-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Benzenemethanol (100-51-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

#### Phenol,4-nonyl-,branched (84852-15-3)

Listed on the Canadian DSL (Domestic Substances List)

## O,O'-Bis(2-aminopropyl)polypropyleneglycol (9046-10-0)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

Component	State or local regulations
1-Piperazine ethanamine(140-31-8)	U.S New Jersey - Right to Know Hazardous Substance List

#### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : This MSDS is prepared based on Article 41 of the Occupational Safety and Health Act and

Notice No.2016-19 of the Ministry of Employment and Labor (based on the availability of material

safety and health data), taking into account the status of regulations related to Korea.

Other information : None.

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H371	May cause damage to organs
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Hazard Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.