

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 26.12.2013

Revision: 26.12.2013

## 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Polycuramine PC 96 Part B**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Polycuramine Activator
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Citadel Floor Finishing Systems  
2271 2nd St. N  
North St. Paul, MN 55109  
Phone: 866-765-4310  
Fax: 763-780-4896
- **1.4 Emergency telephone number:**  
CHEMTREC  
1-800-424-9300 (US/Canada)  
+01 703-527-3887 (International)



## 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361fd, H411.  
The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H361.



H361: Suspected of damaging fertility or the unborn child.



GHS08 health hazard

Repr. 2

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.



GHS05 corrosion

Skin Corr. 1A

H314

Causes severe skin burns and eye damage.



GHS09 environment

Aquatic Chronic 2 H411

Toxic to aquatic life with long lasting effects.



GHS07

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Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H312	Harmful in contact with skin.
Skin Sens. 1	H317	May cause an allergic skin reaction.

• **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R61: May cause harm to the unborn child.



C; Corrosive

R35: Causes severe burns.



Xn; Harmful

R21/22-62: Harmful in contact with skin and if swallowed. Possible risk of impaired fertility.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

• **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

• **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

• **2.2 Label elements**

• **Labelling according to Regulation (EC) No 1272/2008**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361fd, H411.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H361.

The product is classified and labelled according to the CLP regulation.

• **Hazard pictograms**



GHS05 GHS07 GHS08 GHS09

• **Signal word** Danger

• **Hazard-determining components of labelling:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4-nonylphenol, branched

Benzyl alcohol

Polyetheramine

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- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361fd, H411.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H361.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P281 Use personal protective equipment as required.

P260 Do not breathe mist/vapours/spray.

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

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

- **WHMIS-symbols:**

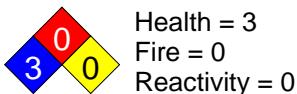
D1B - Toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects

E - Corrosive material



- **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = \*3

Fire = 0

Reactivity = 0

- **HMIS Long Term Health Hazard Substances**

84852-15-3	4-nonylphenol, branched
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- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

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· vPvB: Not applicable.

## 3 Composition/information on ingredients

### 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34; Xn R21/22; Xi R43 R52/53 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	10-45%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol Xn R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332	10-35%
CAS: 9046-10-0	Polyetheramine C R34; Xn R21/22 R52/53 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312 Aquatic Chronic 3, H412	<20%
CAS: 84852-15-3 EINECS: 284-325-5 Index number: 601-053-00-8	4-nonylphenol, branched C R34; Xn R22-62-63; N R50/53 Repr. Cat. 3 Repr. 2, H361fd Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	<10%
CAS: 69-72-7 EINECS: 200-712-3	Salicylic acid Xn R22; Xi R37/38-41 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	<5%

#### · SVHC

84852-15-3 | 4-nonylphenol, branched

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

### 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.

#### · After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

- **After eye contact:**

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Coughing

Cramp

Nausea

Dizziness

Breathing difficulty

Allergic reactions

- **Hazards**

Danger of gastric perforation.

Danger of impaired breathing.

Condition may deteriorate with alcohol consumption.

- **4.3 Indication of any immediate medical attention and special treatment needed**

Contains salicylates. Consult literature for specific antidotes.

May produce a corrosive effect.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Monitor circulation, possible shock treatment.

## 5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Alcohol resistant foam

Gaseous extinguishing agents

Carbon dioxide

Fire-extinguishing powder

Water haze or fog

- **For safety reasons unsuitable extinguishing agents:**

Water with full jet

Water spray

- **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

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- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water fog or haze.

## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Allow to solidify. Pick up mechanically.  
Dispose contaminated material as waste according to item 13.  
Clean the affected area carefully; suitable cleaners are:  
Warm water and cleansing agent  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **7.1 Precautions for safe handling**  
Prevent formation of aerosols.  
Use only in well ventilated areas.  
Avoid splashes or spray in enclosed areas.  
Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.  
Protect from humidity and water.  
Unsuitable material for receptacle: aluminium.  
Unsuitable material for receptacle: steel.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.  
Do not store together with acids.  
Store away from foodstuffs.  
Store away from metals.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.

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Store receptacle in a well ventilated area.

Protect from humidity and water.

- **7.3 Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**100-51-6 Benzyl alcohol**

WEEL (USA) Long-term value: 10 ppm

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.  
Pregnant women should strictly avoid inhalation or skin contact.
- **Respiratory protection:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
Use suitable respiratory protective device when aerosol or mist is formed.  
For spills, respiratory protection may be advisable.  
Use respiratory protection when grinding or cutting material.  
NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR  
Neoprene gloves  
Nitrile rubber, NBR

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Alkaline resistant protective clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Liquid
Colour:	Yellow
Odour:	Amine-like
Odour threshold:	Not determined.

- **pH-value:** Alkaline

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	Not determined.
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<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Slightly soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	Not determined.
<b>Solids content:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with certain metals.  
Reacts with strong oxidizing agents.  
Exothermic reaction with acids.  
Develops corrosive gases/fumes.  
Toxic fumes may be released if heated above the decomposition point.  
Corrodes aluminium.  
Corrodes copper and brass.
- **10.4 Conditions to avoid**  
Keep away from heat and direct sunlight.  
Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Ammonia  
Nitrogen oxides  
Carbon monoxide and carbon dioxide

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## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

### 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1030 mg/kg (rat)
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### 100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
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Dermal	LD50	2000 mg/kg (rabbit)
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### 39423-51-3 Poly [(methyl-1,2-ethanediyl)] ,alpha-hydro-omega-(2-aminomethylethoxy)-ether with 2-ethyl-2(hydroxymethyl)-1,3-propanediol

Oral	LD50	220 mg/kg (rat)
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### 69-72-7 Salicylic acid

Oral	LD50	891 mg/kg (rat)
------	------	-----------------

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Corrosive  
Irritant  
Danger through skin adsorption.  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.  
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.  
Toxic and/or corrosive effects may be delayed up to 24 hours.
- **Sensitisation:** Sensitization possible by skin contact.
- **Repeated dose toxicity:**  
May cause damage to organs through prolonged or repeated exposure .  
Repeated exposures may result in skin and/or respiratory sensitivity.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**  
Repr. 2

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**  
Due to mechanical actions of the product (e.g. agglutinations) damages may occur.  
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.
- **Additional ecological information:**
- **General notes:**  
This statement was deduced from the properties of the single components.  
Avoid transfer into the environment.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralized.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **14.1 UN-Number**
- **DOT, ADR, IMDG, IATA** UN2735

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<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· DOT</li> <li>· ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	<p>Polyamines, liquid, corrosive, n.o.s. (Isophoronediamine, polyetheramine)</p> <p>2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine, polyetheramine), ENVIRONMENTALLY HAZARDOUS</p> <p>POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine, polyetheramine), MARINE POLLUTANT</p> <p>POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine, polyetheramine)</p>
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- 14.3 Transport hazard class(es)

- DOT



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>8 Corrosive substances. 8</p>
--	--------------------------------------

- ADR



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>8 (C7) Corrosive substances. 8</p>
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- IMDG



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>8 Corrosive substances. 8</p>
--	--------------------------------------

- IATA



<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>8 Corrosive substances. 8</p>
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- 14.4 Packing group

<ul style="list-style-type: none"> <li>· DOT, ADR, IMDG, IATA</li> </ul>	<p>III</p>
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<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b> Yes Symbol (fish and tree)</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b> Warning: Corrosive substances.</li> <li>· <b>Danger code (Kemler):</b> 80</li> <li>· <b>EMS Number:</b> F-A,S-B</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> Not applicable.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b> 5L</li> <li>· <b>Transport category</b> 3</li> <li>· <b>Tunnel restriction code</b> E</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b> UN2735, POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine, polyetheramine), ENVIRONMENTALLY HAZARDOUS, 8, III</li> </ul>	

### 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

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- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

69-72-7 | Salicylic acid

- **Canadian Ingredient Disclosure list (limit 1%)**

2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine

100-51-6 | Benzyl alcohol

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

84852-15-3 | 4-nonylphenol, branched

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H302 Harmful if swallowed.

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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

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**Trade name: Polycuramine PC 96 Part B**

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- R20/22 Harmful by inhalation and if swallowed.  
R21/22 Harmful in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R34 Causes burns.  
R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R62 Possible risk of impaired fertility.  
R63 Possible risk of harm to the unborn child.

**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

**· Sources**

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