# **Safety Data Sheet**



Issue Date: 06-Sep-2011 Revision Date: 29-Jul-2016 Version 1

## 1. IDENTIFICATION

Product Identifier

Product Name PC ROT TERMINATOR, RESIN

Other means of identification

**SDS #** 130519-12R-CA

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Adhesives

Uses Advised Against No information available

Details of the supplier of the safety data sheet

**Initial Supplier Address** 

THIS SAFETY DATA SHEET IS NOT COMPLIANT UNLESS CANADIAN ADDRESS IS USED

**Emergency Telephone Number** 

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Colorless liquid Physical state Liquid. Odour Epoxy

## Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1

#### **Label Elements**

# Signal word Warning

#### **Hazard statements**

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapours/spray Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

Other Information
Unknown acute toxicity

70 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review Act	date exemption
			registry number	granted (if applicable)
			(HMIRA registry #)	
Neopentyl Glycol diglycidyl ether	17557-23-2	15	-	-
Alkyl (C12-14) glycidyl ether	68609-97-2	15	-	-

## 4. FIRST AID MEASURES

#### **First Aid Measures**

General advice Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant,

paramedic, or community medical support.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

EN / HGHS Page 2/8

**Skin contact** Wash with soap and water. Remove and wash contaminated clothing before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Immediate medical attention is

Revision Date: 29-Jul-2016

required.

#### Most important symptoms and effects

Symptoms Causes eye irritation. Causes skin irritation. Direct contact may cause temporary redness

and discomfort. May cause respiratory irritation. Ingestion may cause nausea, vomiting,

dizziness, and headache.

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

Note to doctors Skin and eye conditions may be aggravated by long term exposure.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO2). Dry chemical. Alcohol foam.

Unsuitable extinguishing media Not determined.

Specific hazards arising from the

chemical

May generate toxic or irritating combustion products. May generate carbon monoxide gas.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2), Phenolic compounds.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Keep containers cool with water spray. Wear butyl rubber boots, gloves, and bodysuit. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions Wear protective gloves/protective clothing and eye/face protection. Remove any

contaminated clothing and wash thoroughly before reuse.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

Methods for containment Prevent further leakage or spillage if safe to do so. For large spills, dike far ahead of liquid

spill for later disposal.

EN / HGHS Page 3/8

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Methods for cleaning up Dispose of contents/container to an approved waste disposal plant. Soak up in adsorbent

material such as sand and collect in suitable containers. Residual resin may be removed

Revision Date: 29-Jul-2016

using steam or hot soapy water. For waste disposal, see section 13 of the SDS.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid breathing vapours or mists. Do not eat, drink or smoke when handling this product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store contents under

<90F (32C).

Incompatible Materials Bases, Oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### **Appropriate engineering controls**

Engineering controls Maintain eye wash fountain and quick-drench facilities in work area. Provide general or

local exhaust ventilation systems if possible.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical safety goggles/faceshield.

**Skin and body protection** Wear chemically protective gloves to prevent skin contact. Wear impervious protective

clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent

skin contact.

Respiratory protection Ensure adequate ventilation, especially in confined areas. If warranted, wear an appropriate

NIOSH/MSHA approved respirator.

**General hygiene considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before

eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before

reuse.

EN / HGHS Page 4/8

## 9. PHYSICAL AND CHEMICAL PROPERTIES

CC (closed cup)

Information on basic physical and chemical properties

Physical state Liquid

Appearance Colorless liquid
Colour Colourless
Odour Epoxy

Odour Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not determined

Melting Point/Freezing Point 0 °C / 32 °F

Boiling Point/Boiling Range > 148.88 °C / >300 °F

**Flash Point** 177 °C / 350 °F

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined

Flammability Limits in Air

Upper Flammability LimitsNot availableLower Flammability LimitNot available

**Vapour Pressure** 0.06 mm Hg @ 21  $^{\circ}$  C (70  $^{\circ}$  F)

Vapour Density Not data

Relative Density 1.11 @ 4 °C (1=Water)

Water Solubility
Solubility in other solvents
Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature
Kinematic Viscosity
Dynamic Viscosity
Insoluble in water
Not determined
Not available
Not determined
Same as water
Same as water

**Explosive properties**No information available. **Oxidising properties**No information available.

Other Information

Softening PointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk DensityNo information available

#### 10. STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions.

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions 
None under normal processing.

**Hazardous Polymerisation** Hazardous polymerisation does not occur.

Conditions to Avoid Keep out of reach of children.

Incompatible Materials Bases. Oxidising agent.

Hazardous Decomposition Products Thermal oxidative decomposition can produce CO, CO2 in a fire.

EN / HGHS Page 5/8

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye contact** Causes serious eye irritation.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May cause nausea, vomiting, stomach ache, and diarrhea.

Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 7,125.00

Unknown acute toxicity 70 % of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Neopentyl Glycol diglycidyl ether 17557-23-2	= 4500 mg/kg (Rat)	-	-
Alkyl (C12-14) glycidyl ether 68609-97-2	= 17100 mg/kg (Rat)	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Respiratory or skin sensitisation May cause an allergic skin reaction.

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

Persistence/Degradability No information available.

**Bioaccumulation** No information available.

Other Adverse Effects No information available.

EN / HGHS Page 6/8

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

Revision Date: 29-Jul-2016

environmental legislation.

Contaminated packaging Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

TDG Not regulated

DOT Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

## 15. REGULATORY INFORMATION

#### **International Regulations**

Ozone-depleting substances (ODS) Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** 

**International Inventories** 

Not applicable

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Polymer of epichlorohydrin and bisphenol A	Х	Х		Present	Х	Present	Х	Х
Alkyl (C12-14) glycidyl ether	Х	X	Х	Present	Х	Present	Х	Х
Neopentyl Glycol diglycidyl ether	Х	X	X	Present	X	Present	X	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

EN / HGHS Page 7/8

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA **Health Hazards Flammability** Instability **Special Hazards** 

Not determined **Health Hazards** Physical hazards **Personal Protection** HMIS **Flammability** B- Safety Glasses,

Gloves

Revision Date: 29-Jul-2016

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceiling Maximum limit value Skin designation

**Issue Date:** 06-Sep-2011 **Revision Date:** 29-Jul-2016 **Revision Note:** New format.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

EN / HGHS Page 8/8

# **Safety Data Sheet**



Issue Date: 03-Jul-2014 Revision Date: 29-Jul-2016 Version 1

## 1. IDENTIFICATION

Product Identifier

Product Name PC ROT TERMINATOR, HARDENER

Other means of identification

**SDS #** 140703-13R-CA

**Synonyms** None **UN/ID No** UN2735

Recommended use of the chemical and restrictions on use

Recommended Use Adhesives

Uses Advised Against No information available

Details of the supplier of the safety data sheet

**Initial Supplier Address** 

THIS SAFETY DATA SHEET IS NOT COMPLIANT UNLESS CANADIAN ADDRESS IS USED

**Emergency Telephone Number** 

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Amber liquid Physical state Liquid. Odour Ammonia

#### Classification

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Skin sensitisation	Category 1

#### **Label Elements**

#### Signal word Danger

#### **Hazard statements**

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



#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapours/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements - Response**

Immediately call a poison centre or doctor/physician

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 centre or doctor/physician

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

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison centre or doctor/physician IF SWALLOWED: rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Information

Harmful to aquatic life with long lasting effects

Unknown acute toxicity

95 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Substance

Chemical Name	CAS No	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review Act	date exemption
			registry number	granted (if applicable)
			(HMIRA registry #)	
Tetraethylenepentamine	112-57-2	5	-	-

EN / HGHS Page 2/9

## 4. FIRST AID MEASURES

First Aid Measures

**General advice** Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant,

paramedic, or community medical support.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Seek medical attention.

Skin contact Wash with soap and water. Remove and wash contaminated clothing before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

**Inhalation** Remove to fresh air. If breathing has stopped or is labored, give assisted respirations.

Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should

Revision Date: 29-Jul-2016

begin cardiopulmonary resuscitation immediately.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Seek medical attention.

#### Most important symptoms and effects

**Symptoms** May cause severe burns to skin, eyes and other body tissue. Inhalation of vapours and/or

aerosols in high concentration may cause irritation of respiratory system. May cause nose, throat, and lung irritation. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. May cause

delayed lung injury.

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

**Note to doctors** Skin and eye conditions may be aggravated by long term exposure.

Medical Conditions Aggravated by Long-Term Exposure: skin disorders, asthma, allergies

and eye conditions.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical, Dry sand and Limestone

powder.

Unsuitable extinguishing media Water.

Specific hazards arising from the

chemical

May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downward personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Hazardous Combustion Products CO, CO2, ammonia, and nitrogen compounds.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear butyl rubber boots, gloves, and bodysuit. Keep containers cool with water spray. Wear positive pressure self-contained breathing apparatus (SCBA). Do not release runoff from fire control methods to sewers or waterways.

EN / HGHS Page 3/9

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing

vapors, mist or gas. Remove any contaminated clothing and wash thoroughly before reuse.

Revision Date: 29-Jul-2016

Evacuate personnel to safe areas.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. For large spills, dike far ahead of liquid

spill for later disposal.

Methods for cleaning up Soak up in adsorbent material such as sand and collect in suitable containers. Residual

resin may be removed using steam or hot soapy water. Dispose of contents/container to an

approved waste disposal plant. For waste disposal, see section 13 of the SDS.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapors or spray mist.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store contents under

<90F (32C). Store locked up.

Incompatible Materials CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be

formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitro sating agents. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### **Appropriate engineering controls**

Engineering controls Maintain eye wash fountain and quick-drench facilities in work area. Provide general or

local exhaust ventilation if product is sanded or ground.

EN / HGHS Page 4/9

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical safety goggles/faceshield.

**Skin and body protection** Wear protective gloves and protective clothing. Long sleeve shirts and trousers without

cuffs.

Butyl-rubber, Nitrile rubber, Neoprene gloves, Polyvinyl Alcohol Gloves (PVA), Impervious gloves, The breakthrough time of the selected glove(s) must be greater than the intended

Revision Date: 29-Jul-2016

use period.

**Respiratory protection** Ensure adequate ventilation, especially in confined areas. If warranted, wear an appropriate

NIOSH/MSHA approved respirator.

**General hygiene considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before

eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before

reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateLiquidAppearanceAmber liquidColourAmberOdourAmmonia

Odour Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** Not determined

Melting Point/Freezing Point Not data

**Boiling Point/Boiling Range** > 200 °C / >390 °F

Flash Point 195 °C / 383 °F CC (closed cup)

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined

Flammability Limits in Air

Upper Flammability Limits Not available
Lower Flammability Limit Not available
apour Pressure <21 mm Hg

Vapour Pressure <21 mm Hg @ 25°C (77°F) Vapour Density Not data

Not data **Relative Density** Not determined **Water Solubility** Negligible Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not available **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined

**Explosive properties**No information available. **Oxidising properties**No information available.

Other Information

Softening PointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk Density8.5 lbs/gallon @ 25°C

EN / HGHS Page 5/9

## 10. STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions.

**Chemical Stability** Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerisation Hazardous polymerisation does not occur.

**Conditions to Avoid** Keep out of reach of children.

**Incompatible Materials** CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be

formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitro sating agents. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

Revision Date: 29-Jul-2016

Hazardous Decomposition Products Nitric acid. Ammonia Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to

form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO2). Nitrosamine.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Eye contact** Causes severe eye damage.

**Skin contact** Causes severe skin burns. May cause an allergic skin reaction.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed.

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

#### **Numerical measures of toxicity**

**Product Information** 

**Acute Toxicity** 

**Unknown acute toxicity** 95 % of the mixture consists of ingredient(s) of unknown toxicity

**ATEmix (oral)** > 3,500 mg/kg (rat) **ATEmix (dermal)** 8,000 mg/kg (rat)

Inhalation LC50 No Data

**Component Information** 

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Tetraethylenepentamine 112-57-2	= 3990 mg/kg (Rat)	= 660 μL/kg (Rabbit)	-

EN / HGHS Page 6/9

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Respiratory or skin sensitisation May cause an allergic skin reaction.

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

Target organ effects Digestive System, Eyes, Skin.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Tetraethylenepentamine	2.1: 72 h Pseudokirchneriella	420: 96 h Poecilia reticulata		24.1: 48 h Daphnia magna
112-57-2	subcapitata mg/L EC50	mg/L LC50 static		mg/L EC50

Persistence/Degradability No information available.

**Bioaccumulation** No information available.

Mobility .

Chemical Name	Partition Coefficient
Tetraethylenepentamine	1
112-57-2	

Other Adverse Effects No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

<u>TDG</u>

UN2735

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

Hazard Class 8
Packing Group III

DOT

UN/ID No UN2735

**Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine)

Hazard Class 8
Packing Group III

EN / HGHS Page 7/9

**IATA** 

UN/ID No UN2735

**Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine)

**Hazard Class Packing Group** Ш

**IMDG** 

UN/ID No UN2735

**Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine)

**Hazard Class Packing Group** Ш

## 15. REGULATORY INFORMATION

#### **International Regulations**

Ozone-depleting substances (ODS) Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** 

Not applicable

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
TOFA, reaction products with TEPA	Х	X	Х	Present	Х	Present	Х	Х
Tetraethylenepentamin e	Х	Х	Х	Present	Х	Present	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

EN / HGHS Page 8/9

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Instability NFPA **Health Hazards Flammability Special Hazards** Not determined

**Health Hazards** Physical hazards **Personal Protection** HMIS **Flammability** B- Safety Glasses, 3

Gloves

Revision Date: 29-Jul-2016

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceiling Maximum limit value Skin designation

**Issue Date:** 03-Jul-2014 **Revision Date:** 29-Jul-2016 **Revision Note:** New format.

#### **Disclaimer**

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**End of Safety Data Sheet** 

EN / HGHS Page 9/9