

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/18/2012

Reviewed on 10/18/2012

1 Identification of substance

- **Product details**
- **Trade name:** Pro-Poxy™ 2000 Normal - Part A
- **Article number:** 87-140387A
- **Application of the substance / the preparation**

- **Manufacturer/Supplier:**

Unitex®
3101 Gardner
Kansas city, MO 64120

Tel: (800) 821-5846

Fax: (816) 483-3149

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

- **Information department:** Environmental, Health, and Safety department.

2 Composition/Data on components

- **Chemical characterization:**
- **CAS No. Description**
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight = 700)
- **Identification number(s)** Not applicable
- **EINECS Number:** 500-033-5
- **EU Number:** 603-074-00-8

3 Hazards identification

- **Hazard description:** May cause eye and skin irritation. Prolonged contact may cause sensitization.
- **Information pertaining to particular dangers for man and environment:** Not applicable.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



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

HEALTH	1	Health = 1
FIRE	1	Fire = 1
PHYSICAL HAZARD	0	Reactivity = 0

4 First aid measures

- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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Trade name: **Pro-Poxy™ 2000 Normal - Part A**

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· **After swallowing:** Seek medical treatment.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool dry location.
- **Information about storage in one common storage facility:** Store away from incompatible materials.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Trade name: Pro-Poxy™ 2000 Normal - Part A

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· **Eye protection:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

· General Information

Form: Liquid
Color: Grey
Odor: Mild

· Change in condition

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

· **Flash point:** > 94°C (> 201°F)

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

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.
Organic solvents: 0.0 %

· **Solids content:** 100.0 %

· **Volatile Organic Compounds:** Not determined

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** May cause skin irritation.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**
 Water hazard class 1 (Assessment by list): slightly hazardous for water
 Water hazard class 2 (Assessment by list): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.

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Trade name: Pro-Poxy™ 2000 Normal - Part A

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Toxic for aquatic organisms

13 Disposal considerations

- **Product:**

- **Recommendation:**

Must not be disposed of as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- **DOT regulations:**

Not Regulated

- **Hazard class:**

N/A

- **Packing group:**

III

- **Remarks:**

Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).

- **Limited Quantity Exemption:**

No Limited Quantity exemption applies for this shipping class.

- **U.S. Domestic Ground Shipments:**

Same as listed for Standard Shipments above.

- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:**

Same as listed for Standard Shipments above.

- **Emergency Response Guide (ERG) Number:**

Not determine

- **Land transport ADR/RID (cross-border):**

- **ADR/RID class:**

N/A

- **UN-Number:**

- **Packaging group:**

III

- **Maritime transport IMDG:**



- **IMDG Class:**

9

- **UN Number:**

3082

- **Label**

9

- **Packaging group:**

III

- **Marine pollutant:**

Yes

- **Propper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:**

-

- **Packaging group:**

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Trade name: Pro-Poxy™ 2000 Normal - Part A

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15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to the State of California (Prop. 65) to cause cancer:

Substance is listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

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

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:

Xi Irritant

N Dangerous for the environment

· Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number averagemolecular weight = 700)

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Trade name: Pro-Poxy™ 2000 Normal - Part A

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· Risk phrases:

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects
in the aquatic environment.**· Safety phrases:**

2 Keep out of the reach of children.

28 After contact with skin, wash immediately with plenty of ... (to be
specified by the manufacturer).

37/39 Wear suitable gloves and eye/face protection.

61 Avoid release to the environment. Refer to special
instructions/safety data sheets.**· Special labeling of certain preparations:**Contains epoxy constituents. See information supplied by the
manufacturer.**· National regulations:****· Water hazard class:** Water hazard class 2 (Assessment by list): hazardous for water.**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.

· Department issuing MSDS: Environmental, Health & Safety Department**· Contact:** Environmental, Health & Safety Manager

Material Safety Data Sheet

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1 Identification of substance

· Product details

· Trade name: **Pro-Poxy™ 2000 Normal - Part B**

· Article number: 87-140387B

· Application of the substance / the preparation

· Manufacturer/Supplier:

Unitex®
3101 Gardner
Kansas city, MO 64120

Tel: (800) 821-5846

Fax: (816) 483-3149

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

· Information department: Environmental, Health, and Safety department.

2 Composition/Data on components

· Chemical characterization

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

· Dangerous components:

112-57-2	3,6,9-triazaundecamethylenediamine	10-25%
112-24-3	3,6-diazaoctanethylenediamin	10-25%

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

3 Hazards identification

· Hazard description: Not applicable.

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 2

· HMIS-ratings (scale 0 - 4)

HEALTH	3
FIRE	1
PHYSICAL HAZARD	2

Health = 3

Fire = 1

Reactivity = 2

4 First aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
Seek medical treatment.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool dry location.
- **Information about storage in one common storage facility:** Store away from incompatible materials.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

112-24-3 3,6-diazaoctanethylenediamin

WEEL 1 ppm

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112-57-2 3,6,9-triazaundecamethylenediamine

WEEL 5 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

· General Information

Form: Liquid
 Color: Amber
 Odor: Distinctive

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 333°C (631°F)

· **Flash point:** > 94°C (> 201°F)

· **Ignition temperature:** 335.0°C (635°F)

· **Auto igniting:** Product is not selfigniting.

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

· **Vapor pressure at 20°C (68°F):** 0.0 hPa (0 mm Hg)

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents: 0.0 %

· **Solids content:** 100 %

· **Volatile Organic Compounds:** Not determined

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

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

112-24-3 3,6-diazaoctanethylenediamin

Oral	LD50	2500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)

112-57-2 3,6,9-triazaundecamethylenediamine

Dermal	LD50	660 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** 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 internally approved calculation methods for preparations:
Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of as normal garbage. Do not allow product to reach sewage system.
It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

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Trade name: Pro-Poxy™ 2000 Normal - Part B

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

· DOT regulations:



- **Hazard class:** 8
- **Identification number:** UN2735
- **Packing group:** III
- **Proper shipping name (technical name):** AMINES, LIQUID, CORROSIVE, N.O.S. (TETRAETHYLENEPENTAMINE)
- **Label:** 8
- **Remarks:** Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).
- **Limited Quantity Exemption:** Limited Quantity applies for inner packages 1 gallon or smaller.
- **U.S. Domestic Ground Shipments:** Same as listed for Standard Shipments above.
- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:** Same as listed for Standard Shipments above.
- **Emergency Response Guide (ERG) Number:** 153

· Land transport ADR/RID (cross-border):



- **ADR/RID class:** 8 Corrosive substances
- **UN-Number:** 2735
- **Packaging group:** III
- **Description of goods:** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (TETRAETHYLENEPENTAMINE)

· Maritime transport IMDG:



- **IMDG Class:** 8
- **UN Number:** 2735
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** Yes

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· **Propper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S.
(TETRAETHYLENEPENTAMINE)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 2735
 · **Label** 8
 · **Packaging group:** III
 · **Propper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S.
(TETRAETHYLENEPENTAMINE)

15 Regulations

· **Sara**

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

None of the ingredient is listed.

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

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

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

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) 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.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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· **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.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:** C Corrosive· **Hazard-determining components of labelling:**

3,6-diazaoctanethylenediamin

3,6,9-triazaundecamethylenediamine

· **Risk phrases:**

21 Harmful in contact with skin.

34 Causes burns.

43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

2 Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

20 When using do not eat or drink.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

52 Not recommended for interior use on large surface areas.

60 This material and its container must be disposed of as hazardous waste.

64 If swallowed, rinse mouth with water (only if the person is conscious).

· **National regulations:**· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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.

· **Department issuing MSDS:** Environmental, Health & Safety Department· **Contact:** Environmental, Health & Safety Manager

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1 Identification of substance

· Product details

· Trade name: **Pro-Poxy™ 2000 Normal - Part C**

· Article number: 87-140387C

· Application of the substance / the preparation

· Manufacturer/Supplier:

Unitex®
3101 Gardner
Kansas city, MO 64120

Tel: (800) 821-5846

Fax: (816) 483-3149

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

· Information department: Environmental, Health, and Safety department.

2 Composition/Data on components

· Chemical characterization

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

· Dangerous components:

14808-60-7	Quartz (SiO ₂)	50-75%
7727-43-7	barium sulphate, natural	25-50%

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

3 Hazards identification

· Hazard description: May cause eye and skin irritation. Prolonged contact may cause sensitization.

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	0	Fire = 0
PHYSICAL HAZARD	0	Reactivity = 0

4 First aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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Trade name: Pro-Poxy™ 2000 Normal - Part C

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- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Seek medical treatment.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
No special measures required.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

14808-60-7 Quartz (SiO₂)

REL	0.05* mg/m ³ *Respirable dust
TLV	(0.05 R) mg/m ³ NIC-0.025 R

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7727-43-7 barium sulphate, natural

PEL	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV	10 mg/m ³ (e)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **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.

· **Eye protection:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

· General Information

Form:	Solid
Color:	Clear
Odor:	Odorless

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

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

· **Density at 20°C (68°F):** 3.200 g/cm³

· **Solubility in / Miscibility with Water:** Insoluble.

· **Solvent content:**
Organic solvents: 0.0 %

· **Solids content:** 100.0 %

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· **Volatile Organic Compounds:** Not determined

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** May cause skin irritation.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

- **General notes:**
Generally not hazardous for water
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of as normal garbage. Do not allow product to reach sewage system.
It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- | | |
|---|--|
| · DOT regulations: | Not Regulated |
| · Hazard class: | N/A |
| · Packing group: | III |
| · Limited Quantity Exemption: | No Limited Quantity exemption applies for this shipping class. |
| · U.S. Domestic Ground Shipments: | Same as listed for Standard Shipments above. |
| · U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: | Same as listed for Standard Shipments above. |

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· **Emergency Response Guide (ERG) Number:** Not determine

· **Land transport ADR/RID (cross-border):** Not Regulated

· **ADR/RID class:** N/A

· **UN-Number:**

· **Packaging group:** III

· **Maritime transport IMDG:** Not Regulated

· **IMDG Class:** N/A

· **Packaging group:** III

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:** Not Regulated

· **ICAO/IATA Class:** N/A

· **Packaging group:** III

15 Regulations

· **Sara**

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

None of the ingredient is listed.

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

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

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

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) to cause cancer:**

14808-60-7 Quartz (SiO₂)

· **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.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

14808-60-7 Quartz (SiO₂)

I

· **NTP (National Toxicology Program)**

14808-60-7 Quartz (SiO₂)

K

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

14808-60-7 Quartz (SiO₂)

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· **MAK (German Maximum Workplace Concentration)**14808-60-7 Quartz (SiO₂)

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**14808-60-7 Quartz (SiO₂)· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:** Xi Irritant· **Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

· **Safety phrases:**

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

· **Department issuing MSDS:** Environmental, Health & Safety Department· **Contact:** Environmental, Health & Safety Manager

USA