Printing date 02/02/2016

Reviewed on 02/02/2016

1 Identification

- · Product identifier
- · Trade name: Pro-PoxyTM 2000 Normal Part A
- · Article number: 87-140387A
- \cdot Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- 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 Hazard(s) identification

• Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

- Hazard-determining components of labeling: epoxy resin
- Hazard statements
- Causes skin irritation.

Causes serious eye irritation.

- May cause an allergic skin reaction.
- · Precautionary statements

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

Wear protective gloves.

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).

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

· Classification system:

· NFPA ratings (scale 0 - 4)



(Contd. on page 2)

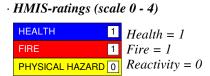
Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part A

(Contd. of page 1)

*≤*10%



· Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

2210-79-9 2,3-epoxypropyl o-tolyl ether

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

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

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

• 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.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

- 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.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

US

Printing date 02/02/2016

Reviewed on 02/02/2016

(Contd. of page 2)

Trade name: Pro-PoxyTM 2000 Normal - Part A

• Advice for firefighters • 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

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

· 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

· Handling:

· Precautions 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.
- · Conditions for safe storage, including any incompatibilities
- · Storage: cool and dry
- 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.
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

• Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

(Contd. on page 4)

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part A

(Contd. of page 3)

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 proper	ties	
· Information on basic physical and	chemical properties	
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Grey	
· Odor:	Mild	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	> 94 °C (> 201 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1.14 g/cm ³ (9.513 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
		(Contd. on page

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part A

	(Contd. of pa	age 4)
Kinematic:	Not determined.	
· Solvent content: Organic solvents:	0.0 %	
Solids content: • Other information	100.0 % No further relevant information available.	
· Volatile Organic Compounds:	Not determined	

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

25085-99-8 Diglycidyl ether of bisphenol A homopolymer

Oral LD50 5000 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: May cause skin irritation.
- on the eye:

Strong irritant with the danger of severe eye injury.

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: Harmful

- Irritant
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 6)

US

Printing date 02/02/2016

Reviewed on 02/02/2016

(Contd. of page 5)

Trade name: Pro-PoxyTM 2000 Normal - Part A

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- *Bioaccumulative potential* No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · 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. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · 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.

UN-Number	
DOT, ADR, ADN, IATA	Not Regulated
IMDG	UN3082
UN proper shipping name	
DOT, ADR, ADN, IATA	Not Regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (epoxy resin), MARINE POLLUTANT

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part A

	(Contd. of pag
Transport hazard class(es)	
DOT, ADR, ADN, IATA	
Class	Not Regulated
IMDG	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special precautions for user	
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73,	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
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
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 mi Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	Not Regulated
011 1110001 Augumunn .	1101 Regulated

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot 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.

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part A

,	xic Substances Control Act):
0	ents are listed.
Propositio	
	known to the State of California (Prop. 65) to cause cancer:
None of th	e ingredients is listed.
Chemical	known to cause reproductive toxicity for females:
None of th	e ingredients is listed.
Chemical	known to cause reproductive toxicity for males:
None of th	e ingredients is listed.
Chemical.	known to cause developmental toxicity:
None of th	e ingredients is listed.
Cancerog	nity categories
EPA (Env	ronmental Protection Agency)
None of th	e ingredients is listed.
TLV (Thr	shold Limit Value established by ACGIH)
None of th	e ingredients is listed.
MAK (Ge	man Maximum Workplace Concentration)
None of th	e ingredients is listed.
NIOSH-C	u (National Institute for Occupational Safety and Health)
None of th	e ingredients is listed.
GHS labe Hazard pi	elements The product is classified and labeled according to the Globally Harmonized System (GHS). stograms
\wedge	
/1/	

- · Signal word Warning
- Hazard-determining components of labeling: epoxy resin
- Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
- · Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wear protective gloves.
- Wear eye protection / face protection.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).
- Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

US

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: $Pro-Poxy^{TM}$ 2000 Normal - Part A

(Contd. of page 8)

Department issuing SDS: Environmental, Health & Safety Department Contact: Environmental, Health & Safety Manager Date of preparation / last revision 02/02/2016 / 106 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ACGHI: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, So percent DSD: Lethal dose, 50 percen		is information is based on our present knowledge. However, this shall not constitute a guarantee for any specific produ tures and shall not establish a legally valid contractual relationship.
Date of preparation / last revision 02/02/2016 / 106 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage Dangerous Goods by Road) INDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists ELINCS: 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) LCS0: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TUY: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Kai Irit: 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit: 24: Serious eye damage/eye irritation, Hazard Category 2A	De	partment issuing SDS: Environmental, Health & Safety Department
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Printing date 03/14/2016

Reviewed on 03/14/2016

1 Identification

- · Product identifier
- · Trade name: Pro-PoxyTM 2000 Normal Part B
- · Article number: 87-140387B
- Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- 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 Hazard(s) identification

· Classification of the substance or mixture

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

3,6-diazaoctanethylenediamin

- 3,6,9-triazaundecamethylenediamine
- · Hazard statements

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

· Precautionary statements

Do not breathe dusts or mists.

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

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 CENTER/doctor.

Store locked up.

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

· Classification system:

· NFPA ratings (scale 0 - 4)



(Contd. on page 2)

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

(Contd. of page 1)

·	HMIS-ratings	(scale	0 -	4)
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 \cdot Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

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

· Dangerous components:			
112-24-3	3,6-diazaoctanethylenediamin	10-25%	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≤10%	
112-57-2	3,6,9-triazaundecamethylenediamine	<i>≤10%</i>	
Additional information: For the wording of the listed hazard phrases refer to section 16.			

4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

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

• 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.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention. • After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture No further relevant information available.

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

• Advice for firefighters • 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

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

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.

· 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

· Handling:

· Precautions 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.
- · Conditions for safe storage, including any incompatibilities
- · 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

112-24-3 3,6-diazaoctanethylenediamin

WEEL Long-term value: 6 mg/m³, 1 ppm Skin

(Contd. on page 4)

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

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

WEEL Long-term value: 5 mg/m³

Skin; DSEN

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

· Exposure controls

- · 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.

Information on basic physical and	chemical properties	
General Information		
Appearance:	T · · · 1	
Form: Color:	Liquid Amber	
Odor:	Amber Distinctive	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	333 °C (631 °F)	
Flash point:	>94 °C (>201 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	335 °C (635 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

		(Contd. of page 4
· Density at 20 °C (68 °F):	0.949 g/cm³ (7.919 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
• Other information	No further relevant information available.	
· Volatile Organic Compounds:	Not determined	

10 Stability and reactivity

· Reactivity No decomposition if stored and applied as directed.

- · Chemical stability No decomposition if stored and applied as directed
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- $\cdot \textit{Incompatible materials: } No \ further \ relevant \ information \ available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

 Information 	on	toxicological	effects
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· 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)

· Primary irritant effect:

• on the skin: May cause skin irritation.

• 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

(Contd. on page 6)

US

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

(Contd. of page 5) Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · 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

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · 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.

(Contd. on page 7)

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

(Contd. of page 6)

UN-Number	
DOT, ADR, IMDG, IATA	UN2735
UN proper shipping name	
DOT, IATA	Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine)
ADR	2735 Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine
IMDG	A M I N E S, L I Q U I D, C O R R O S I V E, N.O. (TETRAETHYLENEPENTAMINE), MARINE POLLUTANT
Transport hazard class(es)	
DOT	
a	
Class	8 Corrosive substances
Label	8
ADR, IATA	
*	
Class	8 Corrosive substances
Label	8
IMDG	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
num no potatant.	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" acids.
	[©] MARPOL 73/78
Transport in bulk according to Annex II of and the IBC Code	Not applicable.

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

	(Contd. of page
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· 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
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities ($\widetilde{E}Q$)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· 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.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

(Contd. on page 9)

US

Printing date 03/14/2016

Reviewed on 03/14/2016

Trade name: Pro-PoxyTM 2000 Normal - Part B

(Contd. of page 8)

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

- *Hazard-determining components of labeling:* 3,6-diazaoctanethylenediamin 3,6,9-triazaundecamethylenediamine
- Hazard statements Causes severe skin burns and eye damage. May cause an allergic skin reaction.
- · Precautionary statements

Do not breathe dusts or mists.

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

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 CENTER/doctor.

Store locked up.

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

· National regulations:

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

- · Department issuing SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- Date of preparation / last revision 03/14/2016 / 109

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
- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

[•] Abbreviations and acronyms:

Printing date 02/02/2016

Reviewed on 02/02/2016

1 Identification

- · Product identifier
- · Trade name: Pro-PoxyTM 2000 Normal Part C
- Article number: 87-140387C
- Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- 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 Hazard(s) identification

• Classification of the substance or mixture Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2B H320 Causes eye irritation.

· Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

· Hazard statements

Causes skin and eye irritation.

• Precautionary statements Wear protective gloves.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



(Contd. on page 2)

US

(Contd. of page 1)

50-75%

25-50%

Safety Data Sheet acc. to OSHA HCS

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part C

· Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

14808-60-7 Quartz (SiO2)

7727-43-7 barium sulphate, natural

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

4 First-aid measures

· Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · 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

• *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*

• Environmental precautions: Do not allow product to reach sewage system or any water course. No special measures required. Do not allow to enter sewers/ surface or ground water.

- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

Printing date 02/02/2016

Reviewed on 02/02/2016

(Contd. of page 2)

Trade name: Pro-PoxyTM 2000 Normal - Part C

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions 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.
- · Conditions for safe storage, including any incompatibilities
- · 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: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

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· Components with limit values that require monitoring at the workplace:		
14808-60-7 Quartz (SiO2)		
PEL	see Quartz listing	
REL	Long-term value: 0.05* mg/m ³	
	*respirable dust; See Pocket Guide App. A	
TLV	Long-term value: 0.025* mg/m ³	
	*as respirable fraction	
7727-43-7 barium sulphate, natural		
PEL	Long-term value: 15* 5** mg/m ³	
	*total dust **respirable fraction	
REL	Long-term value: 10* 5** mg/m ³	
	*total dust **respirable fraction	
TLV	Long-term value: 5* mg/m ³	
	*inhalable fraction; E	
• Additional information: The lists that were valid during the creation were used as basis.		

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- 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.

Penetration time of glove material

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

(Contd. on page 4)

(Contd. of page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part C

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

9 Physical and chemical properties				
Information on basic physical and General Information Appearance:	chemical properties			
Form:	Solid			
Color:	Clear			
Odor:	Odorless			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.			
Flash point:	Not applicable.			
Flammability (solid, gaseous):	Not determined.			
Ignition temperature:				
Decomposition temperature:	Not determined.			
Auto igniting:	Product is not selfigniting.			
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits: Lower: Upper:	Not determined. Not determined.			
Vapor pressure:	Not applicable.			
Density at 20 °C (68 °F):	3.2 g/cm ³ (26.704 lbs/gal)			
Relative density Not determined.				
Vapor density	Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with Water:	Insoluble.			
Partition coefficient (n-octanol/wa	ter): Not determined.			
Viscosity:				
Dynamic:	Not applicable.			
Kinematic:	Not applicable.			
Solvent content:				
Organic solvents:	0.0 %			
Solids content:	100.0 %			
Other information	No further relevant information available.			
Volatile Organic Compounds:	Not determined			

(Contd. on page 5)

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part C

(Contd. of page 4)

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Κ

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- \cdot Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin: May cause skin irritation.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

14808-60-7 Quartz (SiO2)

· NTP (National Toxicology Program)

14808-60-7 Quartz (SiO2)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional 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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

(Contd. on page 6)

[·] Toxicity

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part C

(Contd. of page 5)

13 Disposal considerations

· Waste treatment methods

· 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.

Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	Not Regulated	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not Regulated	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not Regulated	
Packing group DOT, ADR, IMDG, IATA	Not Regulated	
Environmental hazards: Marine pollutant:	No	
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:		
ADR U.S. Domestic Ground Shipments: U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above. Same as listed for Standard Shipments above.	
Emergency Response Guide (ERG) Number:	Not determine	
UN "Model Regulation":	Not Regulated	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · 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.

7727-43-7 barium sulphate, natural

25-50%

(Contd. on page 7)

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part C

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)	
7727-43-7 barium sulphate, natural	D, CBD(inh), NL(ord
TLV (Threshold Limit Value established by ACGIH)	
14808-60-7 Quartz (SiO2)	A
MAK (German Maximum Workplace Concentration)	
14808-60-7 Quartz (SiO2)	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
14808-60-7 Quartz (SiO2)	
GHS label elements The product is classified and labeled according to the Globa Hazard pictograms	lly Harmonized System (GHS).

· Signal word Warning

• *Hazard statements Causes skin and eye irritation.*

· Precautionary statements

Wear protective gloves.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

· 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.

· Department issuing SDS: Environmental, Health & Safety Department

· Contact: Environmental, Health & Safety Manager

 \cdot Date of preparation / last revision 02/02/2016 / 80

(Contd. on page 8)

(Contd. of page 7)

Safety Data Sheet acc. to OSHA HCS

Printing date 02/02/2016

Reviewed on 02/02/2016

Trade name: Pro-PoxyTM 2000 Normal - Part C

· Abbreviations	and	acronyms:
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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 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B