Revision Date 08/23/2013
Revision 2
Supersedes Date 10/05/2013

SAFETY DATA SHEET
CIA-GEL 7000-C Adhesive Anchors part A

1. IDENTIFICATION

Product Name CIA-GEL 7000-C Adhesive Anchors part A

Identification No. 3082

Identified uses Two component epoxy based adhesive. Resin.

Supplier
USP Structural Connectors - A MiTek Company
14305 Southcross Drive - Suite 200
Burnsville
MN 55306
Tel: 800-328-5934
Fax: 952-898-8605
email: info@USPconnectors.com
Web: www.USPconnectors.com

Emergency Telephone Domestic (800) 255-3924 Chem-Tel / International +01-813-248-0585 - operating hours 7:00am to 4:00pm (CST)

2. HAZARD(S) IDENTIFICATION

Appearance Liquid

Color White / off-white.

Odor Characteristic.

Contains

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label

Materials Causing Other Toxic Effects.

Controlled Product Classification

D2A D2B

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

General Information

No specific health warnings noted.

Inhalation

No specific health warnings noted.

Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

Skin Contact

Irritating to skin. May cause sensitization by skin contact.

Eye Contact

May cause severe irritation to eyes.

Health Warnings

Irritating to skin. Irritating to eyes.

Medical Symptoms

Skin irritation.

Medical Considerations

Skin disorders and allergies.

3. COMPOSITION/INFORMATION ON INGREDIENTS

EPOXY RESIN (Number average MW <= 700)	50-80%
CAS No.: 25068-38-6	EC No.: 500-033-5
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	

REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN	10-20%
CAS No.: 9003-36-5	EC No.: 500-006-8
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	

1,6-HEXANEDIOL DIGLYCIDYLETHER	10-20%
CAS No.: 16096-31-4	EC No.: 240-260-4
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Aquatic Chronic 3 - H412	

TALC	1-5%
CAS No.: 14807-96-6	EC No.: 238-877-9
GHS Classification Not classified.	

SILICON DIOXIDE, AMORPHOUS	1-5%
CAS No.: 7631-86-9	EC No.: 231-545-4
GHS Classification Not classified.	

CHLORITE	< 0.5%
CAS No.: 1318-59-8	EC No.: 215-285-9
GHS Classification Not classified.	

DOLOMITE	< 0.5%
CAS No.: 16389-88-1	EC No.: 240-440-2
GHS Classification Not classified.	

MAGNESITE	**< 0.5%**
CAS No.: 13717-00-5	**EC No.:**
GHS Classification Not classified.	

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

Ingestion

DO NOT induce vomiting. Get medical attention immediately.

Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water.

Eye Contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

Most important symptoms and effects, both acute and delayed

Inhalation

Irritation of nose, throat and airway.

Ingestion

May cause stomach pain or vomiting.

Skin Contact

Prolonged skin contact may cause redness and irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye Contact

Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Flash point (°C) >=100°C CC (Closed cup).
Literature

Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

DO NOT use water if avoidable.

Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective Equipment For Fire-Fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Collect and dispose of spillage as indicated in section 13. Contain spillages with sand, earth or any suitable adsorbent material. Avoid discharge into water courses or onto the ground.

Spill Clean Up Methods

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13.

Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes.

Storage

Keep in original container.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
TALC	ACGIH		2 mg/m3			A1, A4

COMPONENT	IDLH
TALC	3000 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.
A1: Confirmed Human Carcinogen.
A4: Not Classifiable as a Human Carcinogen.

Protective Equipment

Process Conditions

Provide eyewash station.

Engineering Measures

No particular ventilation requirements.

Respiratory Equipment

Not relevant

Hand Protection

Wear protective gloves.

Eye Protection

Use approved safety goggles or face shield.

Hygiene Measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Environmental Exposure Controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	White / off-white.
Odor	Characteristic.
Solubility	Insoluble in water
Initial boiling point and boiling range	>35 760 mm Hg

Melting point (°C)

Not applicable.

Relative density 1.2

Vapor density (air=1)

No information available.

Vapor pressure <500 Pa 50°C

Evaporation rate

No information available.

pH-Value, Conc. Solution

Not applicable.

Viscosity

Not determined.

Solubility Value (G/100G H2O@20°C)

Not applicable.

Decomposition temperature (°C)

Not determined.

Odour Threshold, Lower

Not determined.

Odour Threshold, Upper

Not determined.

Flash point >=100°C CC (Closed cup).
Literature

Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient (N-Octanol/Water)

Not determined.

Explosive properties

No information available.

Volatile Organic Compound (VOC) 0.0 g/litre

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazards associated with this product.

Stability

Stable under normal temperature conditions and recommended use.

Not determined.

Hazardous Polymerisation

Not relevant

Conditions To Avoid

Avoid contact with acids and alkalis.

Materials To Avoid

Strong acids. Amines. Amides.

Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients:

EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)

Acute toxicity:

Acute Toxicity (Oral LD50)

11400 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 1200 mg/kg Rat

REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN (CAS: 9003-36-5)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4)

Acute toxicity:

Acute Toxicity (Oral LD50)

3010 mg/kg Rat

12. ECOLOGICAL INFORMATION

Degradability

The product is not biodegradable.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

Mobility:

The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Ecological Information on Ingredients:

EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)

Acute Toxicity - Fish

LC50 96 hours 2 mg/l Onchorhynchus mykiss (Rainbow trout)

Bioaccumulative potential

May accumulate in soil and water systems.

Bioaccumulation factor

BCF 100 - 3000

Partition coefficient

log Pow 3.242

Estimated Value

Mobility:

Semi-mobile.

Adsorption/Desorption Coefficient

Soil Koc 1800 - 4400

Estimated Value

Henry's Law Constant

4.93E-05 Pa m3/mol 25°C

Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 1.8 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours 11 mg/l Freshwater algae

EC50 96 hours 220 mg/l Scenedesmus subspicatus

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days 0.3 mg/l Daphnia magna

Biodegradation

Degradation (12%%) 28 days

REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN (CAS: 9003-36-5)

Acute Toxicity - Fish

LC50 96 hours > 1000 mg/l Onchorhynchus mykiss (Rainbow trout)

Bioaccumulation factor

BCF 100 - 3000

Estimated Value

Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

Acute Toxicity - Aquatic Invertebrates

EC50 24 hours 1.9 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours > 1.8 mg/l Selenastrum capricornutum

1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4)

Acute Toxicity - Fish

LC50 96 hours 30 mg/l Onchorhynchus mykiss (Rainbow trout)

Bioaccumulation factor

BCF < 100

Estimated Value

Partition coefficient

log Pow -0.272

Estimated Value

Biodegradation

Degradation (47%%) 28 days

OECD 301D

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Contact specialist disposal companies.

14. TRANSPORT INFORMATION

UN No. (DOT/TDG)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
DOT Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
TDG Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.

DOT Hazard Class

9

DOT Hazard Label

Class 9

TDG Class	9
TDG Label(s)	9
IMDG Class	9
ICAO Class	9

Transport Labels

DOT Pack Group	III
IMDG Pack Group	III
Air Pack Group	III

Environmentally Hazardous Substance/Marine Pollutant

EMS F-A, S-F

15. REGULATORY INFORMATION

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed.

SILICON DIOXIDE, AMORPHOUS; Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed.

SILICON DIOXIDE, AMORPHOUS

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.
SILICON DIOXIDE, AMORPHOUS
TALC

Rhode Island "Right To Know" List

The following ingredients are listed.
TALC

Minnesota "Right To Know" List

The following ingredients are listed.
SILICON DIOXIDE, AMORPHOUS
TALC

New Jersey "Right To Know" List

The following ingredients are listed.
TALC

Pennsylvania "Right To Know" List

The following ingredients are listed.
MAGNESITE
SILICON DIOXIDE, AMORPHOUS
TALC

International Inventories

EU - EINECS/ELINCS

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER
CHLORITE
DOLOMITE
SILICON DIOXIDE, AMORPHOUS
TALC

Canada – DSL/NDSL

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER
EPOXY RESIN (Number average MW <= 700)
REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN
SILICON DIOXIDE, AMORPHOUS
TALC

US - TSCA

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER
DOLOMITE
EPOXY RESIN (Number average MW <= 700)
REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN
SILICON DIOXIDE, AMORPHOUS
TALC

US – TSCA 12(b) Export Notification

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER

Australia - AICS

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER
DOLOMITE
EPOXY RESIN (Number average MW <= 700)
REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN
SILICON DIOXIDE, AMORPHOUS
TALC

Japan – MITI

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER
EPOXY RESIN (Number average MW <= 700)
SILICON DIOXIDE, AMORPHOUS

Korea - KECI

The following ingredients are listed.
1, 6-HEXANEDIOL DIGLYCIDYLETHER
CHLORITE

DOLOMITE
EPOXY RESIN (Number average MW <= 700)
REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN
SILICON DIOXIDE, AMORPHOUS
TALC

China - IECSC

All ingredients are listed or exempt.

Phillippines – PICCS

All ingredients are listed or exempt.

16. OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	08/23/2013
Revision	2
Supersedes Date	10/05/2013

Revision Date 08/23/2013
Revision 2
Supersedes Date 10/05/2013

SAFETY DATA SHEET
CIA-GEL 7000-C Adhesive Anchors part B

1. IDENTIFICATION

Product Name CIA-GEL 7000-C Adhesive Anchors part B

Identification No. 2735

Identified uses Two component epoxy based adhesive. Hardener.

Supplier
USP Structural Connectors - A MiTek Company
14305 Southcross Drive - Suite 200
Burnsville
MN 55306
Tel: 800-328-5934
Fax: 952-898-8605
email: info@USPconnectors.com
Web: www.USPconnectors.com

Emergency Telephone Domestic (800) 255-3924 Chem-Tel / International +01-813-248-0585 - operating hours 7:00am to 4:00pm (CST)

2. HAZARD(S) IDENTIFICATION

Appearance Liquid

Color Dark brown. to Black.

Odor Characteristic.

Contains

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label

Materials Causing Other Toxic Effects.

Corrosive Material.

Controlled Product Classification

Canadian WHMIS Classification D2A D2B E

Human Health

Corrosive. Prolonged contact causes serious eye and tissue damage.

Inhalation

Vapor may irritate respiratory system or lungs.

Ingestion

May cause stomach pain or vomiting.

Skin Contact

May cause sensitization by skin contact. May cause serious chemical burns to the skin.

Eye Contact

Risk of serious damage to eyes. May cause chemical eye burns.

Health Warnings

May cause sensitization by skin contact. Causes severe burns.

Target Organs

No specific target organs noted

Medical Symptoms

Skin contact may cause: Chemical burns. Eye contact may cause: Chemical burns.

Medical Considerations

Splash in eye requires examination by eye specialist.

Other Health Effects

This substance has no evidence of carcinogenic properties.

Environment

Contains a substance which causes risk of hazardous effects to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

QUARTZ SAND **50-80%**

CAS No.: 14808-60-7 **EC No.: 238-878-4**

GHS Classification
Not classified.

STYRENATED PHENOL **10-20%**

CAS No.: 61788-44-1 **EC No.: 262-975-0**

GHS Classification
Skin Irrit. 2 - H315; Eye Irrit. 2 - H319

2-PIPERAZIN-1-YLETHYLAMINE **5-10%**

CAS No.: 140-31-8 **EC No.: 205-411-0**

GHS Classification
Acute Tox. 4 - H302; Acute Tox. 4 - H312; Skin Corr. 1B - H314; Skin Sens. 1 - H317; Aquatic Chronic 3 - H412

1,3-CYCLOHEXANEBIS(METHYLAMINE) **5-10%**

CAS No.: 2579-20-6 **EC No.: 219-941-5**

GHS Classification
Acute Tox. 4 - H302; Acute Tox. 4 - H312; Skin Corr. 1A - H314; Aquatic Chronic 3 - H412

SALICYLIC ACID **1-5%**

CAS No.: 69-72-7 **EC No.: 200-712-3**

GHS Classification
Acute Tox. 4 - H302; Eye Dam. 1 - H318

SEPIOLITE CLAY **1-5%**

CAS No.: 63800-37-3 **EC No.: 264-465-3**

GHS Classification
Not classified.

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

Ingestion

DO NOT induce vomiting. Get medical attention immediately.

Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye Contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

Most important symptoms and effects, both acute and delayed

Inhalation

Irritation of nose, throat and airway.

Ingestion

May cause stomach pain or vomiting.

Skin Contact

Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.

Eye Contact

May cause blurred vision and serious eye damage.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Flash point (°C) >=100°C CC (Closed cup).
Literature

Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

DO NOT use water if avoidable.

Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective Equipment For Fire-Fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Collect and dispose of spillage as indicated in section 13. Contain spillages with sand, earth or any suitable adsorbent material. Avoid discharge into water courses or onto the ground.

Spill Clean Up Methods

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13.

Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes.

Storage

Keep in original container.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
QUARTZ SAND	ACGIH		0.025 mg/m3			A2

COMPONENT	IDLH
QUARTZ SAND	25 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.
A2: Suspected Human Carcinogen.

Protective Equipment

Process Conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering Measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory Equipment

Wear suitable respiratory protection.

Hand Protection

Wear protective gloves.

Eye Protection

Wear approved safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid

Color Dark brown. to Black.

Odor Characteristic.

Solubility Not determined.

Initial boiling point and boiling range

Not determined.

Melting point (°C)

Not determined.

Relative density 1.8

Vapor density (air=1)

Not determined.

Vapor pressure

Not determined.

Evaporation rate

Not determined.

pH-Value, Conc. Solution

Not applicable.

Viscosity >60s ISO2431

Solubility Value (G/100G H2O@20°C)

Not applicable.

Decomposition temperature (°C)

Not determined.

Odour Threshold, Lower

Not determined.

Odour Threshold, Upper

Not determined.

Flash point >=100°C CC (Closed cup).

Literature

Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient (N-Octanol/Water)

Not determined.

Explosive properties

No information available.

Volatile Organic Compound (VOC) 354 g/litre

10. STABILITY AND REACTIVITY

Reactivity

Acids. Alkalis.

Stability

Stable under normal temperature conditions and recommended use.

Conditions To Avoid

Avoid contact with acids and alkalis.

Materials To Avoid

Epoxides.

Hazardous Decomposition Products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

11. TOXICOLOGICAL INFORMATION

Other Health Effects

This substance has no evidence of carcinogenic properties.

Toxicological Information on Ingredients:

2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 1470 mg/kg Rat

Acute Toxicity (Dermal LD50)

866 mg/kg Rabbit

STYRENATED PHENOL (CAS: 61788-44-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

SALICYLIC ACID (CAS: 69-72-7)

Acute toxicity:

Acute Toxicity (Oral LD50)

891 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Acute toxicity:

Acute Toxicity (Oral LD50)

700 mg/kg Rat

Acute Toxicity (Dermal LD50)

1700 mg/kg Rabbit

12. ECOLOGICAL INFORMATION

Degradability

There are no data on the degradability of this product.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

Mobility:

Mobile. The product is partly soluble in water. May spread in the aquatic environment.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Ecological Information on Ingredients:

2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

Acute Toxicity - Fish

LC50 96 hours 2190 mg/l Pimephales promelas (Fat-head Minnow)

LC50 96 hours 368 mg/l Poecilia reticulata (Guppy)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 32 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 48 hours 494 mg/l Selenastrum capricornutum

STYRENATED PHENOL (CAS: 61788-44-1)

Acute Toxicity - Fish

LC50 96 hours 14.8 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 1-10 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours 3.14 mg/l Scenedesmus subspicatus

SALICYLIC ACID (CAS: 69-72-7)

Acute Toxicity - Fish

LC50 48 hours 90 mg/l Leuciscus idus (Golden orfe)

Acute Toxicity - Microorganisms

EC50 3 hours > 3200 mg/l Activated Sludge

1,3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)

Acute Toxicity - Fish

LC50 96 hours > 100 mg/l Leuciscus idus (Golden orfe)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 29 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 96 hours > 100 mg/l Scenedesmus subspicatus

Acute Toxicity - Terrestrial

EC50 14 days > 1000 mg/kg Eisenia Fetida (Earthworm)

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Contact specialist disposal companies.

14. TRANSPORT INFORMATION

UN No. (DOT/TDG)	2735
UN No. (IMDG)	2735

UN No. (ICAO)	2735
DOT Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S., OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.
TDG Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S., OR POLYAMINES, LIQUID, CORROSIVE, N.O.S.

DOT Hazard Class

8

DOT Hazard Label

Corrosive

TDG Class	8
TDG Label(s)	8
IMDG Class	8
ICAO Class	8

Transport Labels

DOT Pack Group	III
IMDG Pack Group	III
Air Pack Group	III
EMS	F-A, S-B

15. REGULATORY INFORMATION

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics “Hot Spots” (A-I)

None of the ingredients are listed.

California Air Toxics “Hot Spots” (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

2-PIPERAZIN-1-YLETHYLAMINE

QUARTZ SAND

Rhode Island "Right To Know" List

The following ingredients are listed.

QUARTZ SAND

Minnesota "Right To Know" List

The following ingredients are listed.

QUARTZ SAND

New Jersey "Right To Know" List

The following ingredients are listed.
2-PIPERAZIN-1-YLETHYLAMINE
QUARTZ SAND

Pennsylvania "Right To Know" List

The following ingredients are listed.
2-PIPERAZIN-1-YLETHYLAMINE
QUARTZ SAND

International Inventories

EU - EINECS/ELINCS

All ingredients are listed or exempt.

Canada – DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

The following ingredients are listed.
2-PIPERAZIN-1-YLETHYLAMINE
QUARTZ SAND
SALICYLIC ACID
SEPIOLITE CLAY
STYRENATED PHENOL

Japan – MITI

The following ingredients are listed.
1, 3-CYCLOHEXANEBIS(METHYLAMINE)
2-PIPERAZIN-1-YLETHYLAMINE
SALICYLIC ACID
STYRENATED PHENOL

Korea - KECI

All ingredients are listed or exempt.

China - IECSC

All ingredients are listed or exempt.

Phillippines – PICCS

All ingredients are listed or exempt.

16. OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	08/23/2013
Revision	2
Supersedes Date	10/05/2013