

SAFETY DATA SHEET



Date Prepared : 03/05/2015
MSDS No : 11720044_N64600 - RESIN
Date-Revised : 09/27/2017
Revision No : 5

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: PROSEAL PRO WELD 2 OZ 12PK - RESIN

MANUFACTURER

Pacer Technology
 3281 E. Guasti Rd., Suite 260
 Ontario, CA 91761
Emergency Contact: CHEMTREC
Emergency Phone: 800-424-9300
Alternate Emergency Phone: 703-527-3887
Product Stewardship: 909-987-0550

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Inhalation), Category 3
 Germ Cell Mutagenicity, Category 1B

GHS LABEL ELEMENTS

Note: If this product is a consumer product it is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.



Skull and
crossbones



Health
hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H331: Toxic if inhaled.
 H340: May cause genetic defects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash skin and hands thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

SAFETY DATA SHEET



Date Prepared : 03/05/2015
MSDS No : 11720044_N64600 - RESIN
Date-Revised : 09/27/2017
Revision No : 5

P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

COMMENTS: 96.68% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|--|---------|------------|
| Calcium Carbonate (limestone) | 40 - 50 | 1317-65-3 |
| Iron oxide | 10 - 20 | 1309-37-1 |
| Magnesium Carbonate | 5 - 10 | 546-93-0 |
| Solvent naphtha | 1 - 5 | 64742-94-5 |
| Other components below reportable levels | 30 - 40 | |

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth. Get medical attention if symptoms occur.

INHALATION: Remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes eye irritation.

SKIN: Contact causes skin irritation.

SKIN ABSORPTION: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms reoccur. Wash clothing before reuse.

INGESTION: Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

ACUTE EFFECTS: Coughing.

CHRONIC EFFECTS: Coughing.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: During fire, gases hazardous to health may be formed.

EXTINGUISHING MEDIA: Water fog, foam, dry chemical power, Carbon dioxide (CO₂).

HAZARDOUS COMBUSTION PRODUCTS: Combustible by-products of carbon monoxide and dioxide.

SAFETY DATA SHEET



Date Prepared : 03/05/2015
MSDS No : 11720044_N64600 - RESIN
Date-Revised : 09/27/2017
Revision No : 5

FIRE FIGHTING PROCEDURES: Use standard firefighting procedures and consider the hazards of other involved materials.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE EXPLOSION: No unusual fire or explosion hazards noted.

SENSITIVE TO STATIC DISCHARGE: No data available.

SENSITIVITY TO IMPACT: No data available.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustible by-products of carbon monoxide/dioxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

LARGE SPILL: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid discharge into drains, water courses, or onto the ground.

LAND SPILL: Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

AIR SPILL: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

GENERAL PROCEDURES: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure.

HANDLING: Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

STORAGE: Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SAFETY DATA SHEET



Date Prepared : 03/05/2015
 MSDS No : 11720044_N64600 - RESIN
 Date-Revised : 09/27/2017
 Revision No : 5

EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | |
|--|-----------------|-------|-----|-------------------|
| Chemical Name | EXPOSURE LIMITS | | | |
| | Type | | ppm | mg/m ³ |
| Calcium Carbonate (limestone) | OSHA PEL | PEL | [1] | 15 [1] |
| | | PEL | [2] | 5 [2] |
| | ACGIH TLV | ACGIH | [1] | 10 [1] |
| | | ACGIH | [2] | 3 [2] |
| Iron oxide | ACGIH TLV | TWA | | 5 |
| Magnesium Carbonate | OSHA PEL | PEL | [1] | 15 [1] |
| | | PEL | [2] | 5 [2] |
| Solvent naphtha | ACGIH TLV | TWA | | 200 |
| OSHA TABLE COMMENTS: 1. Total dust. 2. Respirable fraction. | | | | |

ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: If contact is likely, safety glasses with side shields are recommended.

SKIN: For prolonged or repeated skin contact use suitable protective gloves. Wear suitable protective clothing.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment.

PROTECTIVE CLOTHING: Wear protective clothing. Launder contaminated clothing before reuse.

WORK HYGIENIC PRACTICES: Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminant.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: No data available

ODOR THRESHOLD: No data available

APPEARANCE: Thick liquid.

COLOR: No data available

PHYSICAL STATE COMMENTS: Liquid. Paste.

pH: No data available

PERCENT VOLATILE: 0.005% estimated

SAFETY DATA SHEET



Date Prepared : 03/05/2015
MSDS No : 11720044_N64600 - RESIN
Date-Revised : 09/27/2017
Revision No : 5

FLASHPOINT AND METHOD: No data available
FLAMMABLE LIMITS: No data available
AUTOIGNITION TEMPERATURE: No data available
VAPOR PRESSURE: 0.000009 hPa estimated
VAPOR DENSITY: No data available
BOILING POINT: No data available
FREEZING POINT: No data available
MELTING POINT: 565°C (1049°F)
Notes: estimated.
POUR POINT: No data available
THERMAL DECOMPOSITION: No data available
SOLUBILITY IN WATER: No data available
EVAPORATION RATE: No data available
DENSITY: 14.98 lbs/gal estimated
SPECIFIC GRAVITY: 1.8 estimated
VISCOSITY: No data available
MOLECULAR WEIGHT: No data available
(VOC): 0.005 % estimated

10. STABILITY AND REACTIVITY

REACTIVITY: This product is stable and non-reactive under normal conditions of use, storage, and transport.
HAZARDOUS POLYMERIZATION: No dangerous reaction known under conditions of normal use.
STABILITY: Stable under normal conditions.
CONDITIONS TO AVOID: Contact with incompatible materials.
POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions are possible when exposed to incompatible materials such as nitrates, chlorine, ammonia, strong oxidizers, alkalis, and acids
HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products are known.
INCOMPATIBLE MATERIALS: Flourine

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

| Chemical Name | ORAL LD ₅₀ (rat) | INHALATION LC ₅₀ (rat) |
|-------------------------------|-----------------------------|-----------------------------------|
| Calcium Carbonate (limestone) | 6450 mg/kg | |
| Solvent naphtha | > 25 ml/kg | 61 mg/l 4 hr (rat) |

NOTES: Toxic if inhaled.

SKIN CORROSION/IRRITATION: Prolonged or repeated skin contact may cause irritation.

SAFETY DATA SHEET



Date Prepared : 03/05/2015
MSDS No : 11720044_N64600 - RESIN
Date-Revised : 09/27/2017
Revision No : 5

SERIOUS EYE DAMAGE/IRRITATION: Direct contact with eyes may cause temporary irritation.

RESPIRATORY OR SKIN SENSITISATION: May cause sensitization by skin contact.

GERM CELL MUTAGENICITY: May cause genetic defects.

CARCINOGENICITY

IARC: Iron oxide (1309-37-1), Group 3 - Not classifiable as to carcinogenicity to humans.

NTP: Not listed.

OSHA: Not regulated.

REPRODUCTIVE TOXICITY: This product is not expected to cause reproductive or developmental effects.

STOT-SINGLE EXPOSURE: Not classified.

STOT-REPEATED EXPOSURE: Not classified.

ASPIRATION HAZARD: Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Keep material out of storm sewers and ditches which lead to waterways.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: NOT REGULATED

AIR (ICAO/IATA)

SHIPPING NAME: NOT REGULATED

VESSEL (IMO/IMDG)

SHIPPING NAME: NOT REGULATED

COMMENTS: The transport information provided in this section only applies to the material formulation/itself, and is not specific to any package/configuration. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organizations to follow all applicable laws, regulations, and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: Not regulated.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

SAFETY DATA SHEET



Date Prepared : 03/05/2015
MSDS No : 11720044_N64600 - RESIN
Date-Revised : 09/27/2017
Revision No : 5

| Chemical Name | CAS |
|--|------------|
| Calcium Carbonate (limestone) | 1317-65-3 |
| Iron oxide | 1309-37-1 |
| Magnesium Carbonate | 546-93-0 |
| Solvent naphtha | 64742-94-5 |
| Other components below reportable levels | |

TSCA STATUS: All components are listed on or are exempt from listing on the Toxic Substances Control Act.

CLEAN AIR ACT (HAZARDOUS AIR POLLUTANTS): Not regulated.

CALIFORNIA PROPOSITION 65: WARNING: This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

GENERAL COMMENTS: Massachusetts Right to Know components: (Calcium Carbonate CAS 1317-65-3), (Iron oxide CAS 1309-37-1), (Magnesium carbonate CAS 546-93-0). New Jersey Right to Know components: (Calcium Carbonate CAS 1317-65-3), (Iron oxide CAS 1309-37-1), (Magnesium carbonate CAS 546-93-0), (Heavy aromatic naphtha 64742-94-5).

Pennsylvania Right to Know components: (Calcium Carbonate CAS 1317-65-3), (Iron oxide CAS 1309-37-1).

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

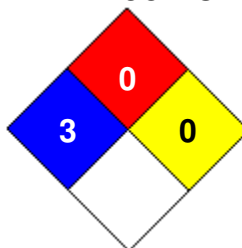
PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 09/27/2017

REVISION SUMMARY: This MSDS replaces the 05/08/2017 MSDS. Revised: **Section 1:** MSDS No. **Section 15:** CALIFORNIA PROPOSITION 65.

HMIS RATING

| | | |
|---------------------|---|---|
| HEALTH | * | 3 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |
| PERSONAL PROTECTION | | |

NFPA CODES



MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Pacer Technology does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SAFETY DATA SHEET



Date Prepared : 10/22/2012

MSDS No : 11720044_N64600 - COLD HARDENER

Date-Revised : 05/08/2017

Revision No : 4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: PROSEAL PRO WELD 2 OZ 12PK - COLD HARDENER

MANUFACTURER

Pacer Technology
3281 E. Guasti Rd., Suite 260
Ontario, CA 91761

Emergency Contact: CHEMTREC

Emergency Phone: 800-424-9300

Alternate Emergency Phone: 703-527-3887

Product Stewardship: 909-987-0550

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Respiratory Sensitization, Category 1

Health:

Acute Toxicity (Oral), Category 4

Acute Toxicity (Dermal), Category 4

Acute Toxicity (Inhalation), Category 4

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Respiratory Sensitization, Category 1

Skin sensitisation, Category 1

Carcinogenicity, Category 2

Reproductive Toxicity, Category 2

Specific Target Organ Toxicity (Repeated Exposure), Category 2

Environmental:

Aquatic Hazard (Acute), Category 2

Aquatic Hazard (Long-Term), Category 3

GHS LABEL ELEMENTS

Note: If this product is a consumer product it is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.



Exclamation
mark



Health
hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

SAFETY DATA SHEET



Date Prepared : 10/22/2012

MSDS No : 11720044_N64600 - COLD HARDENER

Date-Revised : 05/08/2017

Revision No : 4

H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H350: Suspected of causing cancer.
 H361: Suspected of damaging fertility or the unborn child.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H401: Toxic to aquatic life.
 H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P264: Wash skin and hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P284: [In case of inadequate ventilation] wear respiratory protection.
 P362: Take off contaminated clothing.

Response:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313: IF exposed or concerned: Get medical advice/ attention.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P313: Get medical advice/attention.
 P330: Rinse mouth.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P361+P364: Take off immediately all contaminated clothing and wash it before reuse.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

COMMENTS: 72.63% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 71.14% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

SAFETY DATA SHEET



Date Prepared : 10/22/2012
MSDS No : 11720044_N64600 - COLD HARDENER
Date-Revised : 05/08/2017
Revision No : 4

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|--|---------|------------|
| Barium sulfate | 20 - 30 | 7727-43-7 |
| Calcium Carbonate (limestone) | 20 - 30 | 1317-65-3 |
| Magnesium Carbonate | 5 - 10 | 546-93-0 |
| Talc | 1 - 5 | 14807-96-6 |
| Titanium dioxide | 1 - 5 | 13463-67-7 |
| Furfuryl alcohol | 1 - 5 | 98-00-0 |
| Triethylenetetramine | 1 - 5 | 112-24-3 |
| Bisphenol A | 0.1 - 1 | 80-05-7 |
| Diethylenetriamine | 0.1 - 1 | 111-40-0 |
| Other components below reportable levels | 20 - 30 | |

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

SKIN: Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

INGESTION: Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

SKIN: Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

INGESTION: Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

INHALATION: Coughing. Difficulty in breathing.

ADDITIONAL INFORMATION: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

COMMENTS: IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that the medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this Safety Data Sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

SAFETY DATA SHEET



Date Prepared : 10/22/2012
MSDS No : 11720044_N64600 - COLD HARDENER
Date-Revised : 05/08/2017
Revision No : 4

GENERAL HAZARD: During fire, gases hazardous to health may be formed.

EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Do **NOT** use water jet as an extinguisher, as this will spread the fire.

FIRE FIGHTING PROCEDURES: Use standard firefighting procedures and consider the hazards of other involved materials.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

FIRE EXPLOSION: No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

LARGE SPILL: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recover, flush area with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

LAND SPILL: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

AIR SPILL: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

GENERAL PROCEDURES: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained.

SPECIAL PROTECTIVE EQUIPMENT: Wear appropriate protective equipment and clothing during clean-up.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink, or smoke. Pregnant or breastfeeding women must not handle this product. should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

STORAGE: Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SAFETY DATA SHEET



Date Prepared : 10/22/2012

MSDS No : 11720044_N64600 - COLD HARDENER

Date-Revised : 05/08/2017

Revision No : 4

EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | |
|--|-----------------|-------|-----|-------------------|
| Chemical Name | EXPOSURE LIMITS | | | |
| | Type | | ppm | mg/m ³ |
| Barium sulfate | OSHA PEL | PEL | [1] | 5 [1] |
| | ACGIH TLV | TWA | [2] | 5 [2] |
| Calcium Carbonate (limestone) | OSHA PEL | PEL | [3] | 15 [3] |
| | | PEL | [1] | 5 [1] |
| | ACGIH TLV | ACGIH | [3] | 10 [3] |
| | | ACGIH | [1] | 3 [1] |
| Magnesium Carbonate | OSHA PEL | PEL | [3] | 15 [3] |
| | | PEL | [1] | 5 [1] |
| Talc | ACGIH TLV | TWA | [1] | 2 [1] |
| | OSHA PEL | TWA | [3] | 0.3 [3] |
| | | TWA | [4] | 0.1 [4] |
| Titanium dioxide | ACGIH TLV | TLV | | 10 |
| | OSHA PEL | PEL | [3] | 15 [3] |
| OSHA TABLE COMMENTS: 1. Respirable fraction. 2. Inhalable fraction. 3. Total dust. 4. Respirable. | | | | |

ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Eye wash facilities and emergency shower must be available when handling this product.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

RESPIRATORY: Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended: Full-face NIOSH-approved respirator with organic vapor cartridge.

PROTECTIVE CLOTHING: Wear protective clothing. Launder contaminated clothing before reuse.

WORK HYGIENIC PRACTICES: Avoid contact with skin and eyes. Wash thoroughly after handling.

OTHER USE PRECAUTIONS: Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminant. Contaminated work clothing should not be

SAFETY DATA SHEET



Date Prepared : 10/22/2012
MSDS No : 11720044_N64600 - COLD HARDENER
Date-Revised : 05/08/2017
Revision No : 4

allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Slight
ODOR THRESHOLD: No data available
APPEARANCE: Liquid. Paste.
COLOR: Beige
pH: No data available
PERCENT VOLATILE: No data available
FLASHPOINT AND METHOD: No data available
FLAMMABLE LIMITS: No data available
AUTOIGNITION TEMPERATURE: No data available
VAPOR PRESSURE: 0.00001 hPa estimated
VAPOR DENSITY: No data available
BOILING POINT: No data available
FREEZING POINT: No data available
MELTING POINT: 990°C (1814°F)
POUR POINT: No data available
THERMAL DECOMPOSITION: No data available
SOLUBILITY IN WATER: No data available
PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available
EVAPORATION RATE: No data available
DENSITY: 14.80 lbs/gal
SPECIFIC GRAVITY: 1.77
VISCOSITY: No data available
MOLECULAR WEIGHT: No data available
(VOC): 3.88 % estimated

10. STABILITY AND REACTIVITY

REACTIVITY: This product is stable and non-reactive under normal conditions of use, storage, and transport.
STABILITY: Material is stable under normal conditions.
CONDITIONS TO AVOID: Contact with incompatible materials.
POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known under conditions of normal use.
HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products are known.
INCOMPATIBLE MATERIALS: Aluminum. Phosphorous. Fluorine.

11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET



Date Prepared : 10/22/2012
 MSDS No : 11720044_N64600 - COLD HARDENER
 Date-Revised : 05/08/2017
 Revision No : 4

ACUTE TOXICITY

| Chemical Name | ORAL LD ₅₀ (rat) | DERMAL LD ₅₀ (rabbit) | INHALATION LC ₅₀ (rat) |
|-------------------------------|-----------------------------|----------------------------------|-----------------------------------|
| Calcium Carbonate (limestone) | 6450 mg/kg | | |
| Titanium dioxide | > 24000 mg/kg (rat) | > 10000 mg/kg (rabbit) | > 6.82 mg/L |
| Furfuryl alcohol | 177 mg/kg (rat) | 400 mg/kg (rabbit) | < 2.07 mg/L per 4 hr (rat) |
| Triethylenetetramine | 2500 mg/kg (rat) | 550 mg/kg (rabbit) | |

SKIN CORROSION/IRRITATION: Causes skin irritation.

SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

GERM CELL MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY

IARC: Titanium dioxide (13463-67-7) Group 2B

NTP: Not listed.

OSHA: Not listed.

NOTES: Suspected of causing cancer.

REPRODUCTIVE TOXICITY: Suspected of damaging fertility or the unborn child.

STOT-SINGLE EXPOSURE: Not classified.

STOT-REPEATED EXPOSURE: May cause damage to organs through prolonged or repeated exposure.

ASPIRATION HAZARD: Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Prevent product from entering drains or sewers in case of spill.

ECOTOXICOLOGICAL INFORMATION: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

PRODUCT DISPOSAL: Dispose in accordance with all applicable regulations.

EMPTY CONTAINER: Since emptied container may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: NOT REGULATED

AIR (ICAO/IATA)

SAFETY DATA SHEET



Date Prepared : 10/22/2012
 MSDS No : 11720044_N64600 - COLD HARDENER
 Date-Revised : 05/08/2017
 Revision No : 4

SHIPPING NAME: NOT REGULATED

VESSEL (IMO/IMDG)

SHIPPING NAME: NOT REGULATED

COMMENTS: The transport information provided in this section only applies to the material formulation/itself, and is not specific to any package/configuration. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organizations to follow all applicable laws, regulations, and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: Bisphenol A (CAS 80-05-7): 0.1 to <1% by wt.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Barium sulfate (CAS 772-43-7) - Listed.

Bisphenol A (CAS 80-05-7) - Listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name | CAS |
|-------------------------------|------------|
| Barium sulfate | 7727-43-7 |
| Calcium Carbonate (limestone) | 1317-65-3 |
| Magnesium Carbonate | 546-93-0 |
| Talc | 14807-96-6 |
| Titanium dioxide | 13463-67-7 |
| Furfuryl alcohol | 98-00-0 |
| Triethylenetetramine | 112-24-3 |
| Bisphenol A | 80-05-7 |
| Diethylenetriamine | 111-40-0 |

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Not regulated.

CLEAN AIR ACT (HAZARDOUS AIR POLLUTANTS): Bisphenol A (CAS 80-05-7)

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

REGULATIONS

STATE REGULATIONS: California Controlled Substances Dept of Justice (CA Health and Safety Code section 11100):

SAFETY DATA SHEET



Date Prepared : 10/22/2012

MSDS No : 11720044_N64600 - COLD HARDENER

Date-Revised : 05/08/2017

Revision No : 4

Not listed.

California Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, title. 22, 69502.3 subd. (a)): Bisphenol A (CAS 80-05-7), Talc (CAS 14807-96-6), Titanium dioxide (CAS 13463-67-7).

Massachusetts RTK - Substance List: Barium sulfate (CAS 7727-43-7), Bisphenol A (CAS 80-05-7), Calcium carbonate (CAS 1317-65-3), Diethylenetriamine (CAS 111-40-0), Furfuryl alcohol (CAS 98-00-0), Magnesium carbonate (CAS 546-93-0), Talc (CAS 14807-96-6), Titanium dioxide (CAS 13463-67-7), Triethylenetetramine (CAS 112-24-3).

New Jersey Worker and Community Right-to-Know Act: Barium sulfate (CAS 7727-43-7), Bisphenol A (CAS 80-05-7), Calcium carbonate (CAS 1317-65-3), Diethylenetriamine (CAS 111-40-0), Furfuryl alcohol (CAS 98-00-0), Magnesium carbonate (CAS 546-93-0), Talc (CAS 14807-96-6), Titanium dioxide (CAS 13463-67-7), Triethylenetetramine (CAS 112-24-3).

Pennsylvania Worker and Community Right-to-Know Act: Barium sulfate (CAS 7727-43-7), Bisphenol A (CAS 80-05-7), Calcium carbonate (CAS 1317-65-3), Diethylenetriamine (CAS 111-40-0), Furfuryl alcohol (CAS 98-00-0), Talc (CAS 14807-96-6), Titanium dioxide (CAS 13463-67-7), Triethylenetetramine (CAS 112-24-3).

Rhode Island RTK: Bisphenol A (CAS 80-05-7).

CALIFORNIA PROPOSITION 65: WARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Chemical Name | Wt. % | Listed |
|------------------|---------|---------------------|
| Titanium dioxide | 1 - 5 | Cancer |
| Bisphenol A | 0.1 - 1 | Female Reproductive |

CLEAN WATER ACT: Not regulated.

SDWA (SAFE DRINKING WATER ACT): Not regulated.

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 05/08/2017

REVISION SUMMARY: This MSDS replaces the 03/05/2015 MSDS. Revised: **Section 1:** APPROVED BY, 24 HR. EMERGENCY TELEPHONE NUMBERS, MSDS No, PREPARED BY, TITLE. **Section 2:** COMMENTS. **Section 3:** Wt.%. **Section 4:** ACUTE TOXICITY, ADDITIONAL INFORMATION, COMMENTS, EYES, INGESTION, INHALATION, SIGNS AND SYMPTOMS OF OVEREXPOSURE (INGESTION, INHALATION, SKIN, SKIN ABSORPTION), SKIN. **Section 5:** EXPLOSION HAZARDS, EXTINGUISHING MEDIA, FIRE EXPLOSION, FIRE FIGHTING EQUIPMENT, FIRE FIGHTING PROCEDURES, FLAMMABLE CLASS, GENERAL HAZARD, HAZARDOUS COMBUSTION PRODUCTS, HAZARDOUS DECOMPOSITION PRODUCTS, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT. **Section 6:** AIR SPILL, GENERAL PROCEDURES, LAND SPILL, LARGE SPILL, SMALL SPILL, SPECIAL PROTECTIVE EQUIPMENT, WATER SPILL, . **Section 7:** ELECTROSTATIC ACCUMULATION HAZARD, GENERAL PROCEDURES, HANDLING, LOADING TEMPERATURE, LOADING/UNLOADING VISCOSITY, SPECIAL SENSITIVITY, STORAGE, STORAGE PRESSURE, STORAGE TEMPERATURE. **Section 8:** ENGINEERING CONTROLS, OTHER USE PRECAUTIONS, PERSONAL PROTECTIVE EQUIPMENT (EYES AND FACE). **Section 9:** APPEARANCE, AUTOIGNITION TEMPERATURE, BOILING POINT, COEFF. OIL/WATER, COLOR, DENSITY, EVAPORATION RATE, FLAMMABLE LIMITS, FLASHPOINT AND METHOD, FREEZING POINT, MELTING POINT, MOLECULAR WEIGHT, ODOR, ODOR THRESHOLD, PERCENT VOLATILE, pH, PHYSICAL STATE, POUR POINT, SOLUBILITY IN WATER, SPECIFIC GRAVITY, VAPOR DENSITY, VAPOR PRESSURE, VISCOSITY, (VOC), THERMAL DECOMPOSITION, . **Section 10:** CONDITIONS TO AVOID, HAZARDOUS DECOMPOSITION PRODUCTS, HAZARDOUS POLYMERIZATION, INCOMPATIBLE MATERIALS, STABILITY, STABLE, POSSIBILITY OF HAZARDOUS REACTIONS. **Section 11:** ACUTE, IARC, NTP, ASPIRATION HAZARD, CARCINOGENICITY, GERM CELL MUTAGENICITY, REPRODUCTIVE TOXICITY, , STOT-REPEATED EXPOSURE, STOT-SINGLE EXPOSURE, , SKIN

SAFETY DATA SHEET



Date Prepared : 10/22/2012

MSDS No : 11720044_N64600 - COLD HARDENER

Date-Revised : 05/08/2017

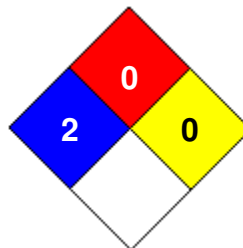
Revision No : 4

CORROSION/IRRITATION. **Section 12:** ECOTOXICOLOGICAL INFORMATION, BIOACCUMULATION/ACCUMULATION. **Section 13:** DISPOSAL METHOD, EMPTY CONTAINER, PRODUCT DISPOSAL. **Section 14:** AIR (ICAO/IATA) - SHIPPING NAME COMMENTS, DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME ROAD AND RAIL (ADR/RID) - PROPER SHIPPING NAME SHIPPING NAME, VESSEL (IMO/IMDG) - SHIPPING NAME. **Section 15:** CERCLA REGULATORY, CHRONIC, CLEAN WATER ACT, 313 REPORTABLE INGREDIENTS, SDWA (SAFE DRINKING WATER ACT), STATE REGULATIONS, CALIFORNIA PROPOSITION 65, 40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION, 29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS, WHMIS CLASS, CLEAN AIR ACT (HAZARDOUS AIR POLLUTANTS). **Section 16:** HMIS RATING (PHYSICAL HAZARD, CHRONIC), NFPA CODES (REACTIVITY).

HMIS RATING

| | | |
|---------------------|---|---|
| HEALTH | * | 2 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |
| PERSONAL PROTECTION | | |

NFPA CODES



MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Pacer Technology does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.