

SAFETY DATA SHEET

Version 20.1

Issue Date 05/15/20

1. PRODUCT AND COMPANY INFORMATION

- 1.1 Product Identifier:** Creteseal® MAX Part B
Chemical Name/Class: Modified Epoxy Resin
- 1.2 Relevant Identified Uses of the Substance or Mixture**
Creteseal® MAX is a two-component moisture mitigation system that penetrates and mechanically bonds to properly prepared concrete, creating a durable coating to control moisture.
- 1.3 Supplier of the SDS:** OBEX Co. | 740 N 5th Street | Jacksonville, OR 97530 | Phone: 844-265-3535 | www.obexco.com
- 1.4 Emergency Phone Number: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887**

2. HAZARDS IDENTIFICATION

2.1 GHS Classification of the substance or mixture:

Skin corrosion/irritation (Category 1B), H315
Skin sensitizer (Category 1), H317
Serious Eye Damage/ Eye irritation (Category 1), H314
Reproductive Toxicity (Category 2), H361

2.2 GHS Label elements, including precautionary statements:

2.2.1 Hazard Pictogram:

GHS07

2.2.2 Signal Word:

Warning; Danger

2.2.3 Hazard statements:

H303 + H333: May be harmful if swallowed or if inhaled
H312 + H315 + H317: Harmful if in contact with skin; May cause skin irritation or allergic reaction
H314: Causes severe skin burns and eye damage
H335: May cause respiratory irritation
H361: Suspected of damaging fertility or unborn child

2.2.4 Precautionary statements:

P260 + 261: Do not / avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
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 into the environment.
P280: Wear protective gloves/protective clothing/eye protection.
P301+312: IF SWALLOWED: Rinse mouth. Call a doctor/ physician if you feel unwell.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P332 + P333 + P313: If skin irritation or rash occurs, get medical attention/advice.
P333 + P363: If skin irritation or rash occurs, wash contaminated clothing before re-use.
P304 + P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340: IF INHALED: Remove person to fresh air and keep at rest in a position 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.
P337 + P313: If eye irritation persists, get medical attention/advice.
P362: Take off contaminated clothing and wash before reuse.
P391+ P501: Collect spillage and always dispose of contents/container in accordance with local/regional/national international regulations.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.



2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: No data available.

2.4 Unknown Acute Toxicity: No data available.

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Substances:

Component	Product Identifier	Concentration	GHS Classification
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Aliphatic amine	NA	15-40%	See Section 2.1 for details
Paratertiarybutylphenol	(CAS# 98-54-4)	10-20%	See Section 2.1 for details
Water and other ingredients present in less than 1% concentration in this product			

3.2 VOC Levels: VOC Component = 0 grams/liter. As applied as part of a multi-component system = 0 grams/liter.

4. FIRST AID MEASURES

4.1 Description of first aid measures: General: Use with adequate ventilation. Consult a physician if any irritation persists.

If inhaled: Inhalation may potentially cause irritation of mucous membranes. Move to fresh air. If irritation persists, contact a physician. **In case of skin contact:** Wash with plenty of warm soapy water. Avoid prolonged or repeated contact with skin. Remove contaminated clothing, preferably under a safety shower, and wash contaminated clothing before re-use. Promptly seek medical attention. **In case of eye contact:** Immediately flush with water liberally for at least 15 minutes. Remove contact lenses if present and easy to do so. Promptly seek medical attention. **If swallowed:** Give plenty of water to drink. Promptly seek medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed: See labeling section 2.2.

4.3 Indication of any immediate medical attention and special treatment needed: Promptly seek medical attention if exposure occurs. Application of corticosteroid cream has been effective at treating skin irritation.

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media:

For large fires use water spray, alcohol-resistant foam, carbon dioxide (CO₂), or dry chemicals.

5.2 Special hazards arising from the substance or mixture:

Run off from fire control may cause pollution. Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination. If involved in a fire, this product may decompose to produce a variety of compounds (i.e. carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides and compounds). Products of combustion are irritating to the respiratory tract and may cause breathing difficulty. Symptoms may be delayed several hours or longer depending on the extent of exposure.

5.3 Advice for firefighters: Exercise caution. Firefighters should wear full protective gear including respiratory protection. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Use personal protective equipment including impermeable gloves, chemically resistant suit, and hard-hat. Avoid breathing vapors, mist or gas; self-contained breathing apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see Section 8.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up:

Stop the leak and absorb spill. Ventilate the space involved. Shut off or remove all ignition sources if possible. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, then collect with an electrically protected vacuum cleaner or by wet-brushing and place in suitable, closed container(s) for disposal according to federal, state, and local regulations (see Section 13). Do not allow material to run off work area, excess material should be absorbed or vacuumed and disposed of in accordance with regulations. For small spills use noncombustible absorbent material such as polyps or other suitable absorbent materials. Neutralize residue with sodium bicarbonate and water rinse. Decontaminate the area thoroughly. Test area with litmus paper to confirm neutralization. Place all residue into suitable container for disposal according to federal, state, and local regulations (see Section 13).

6.4 Reference to other sections: For disposal see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid breathing vapor, mist, dust, or fumes. Use with adequate ventilation. Open container slowly on a stable surface. Containers of this product must be properly labeled. Keep container tightly closed when not in use. Empty containers may contain residual liquid, therefore empty containers should be handled with care. For precautions see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities:

Store containers in a cool dry location away from direct sunlight, sources of intense heat, or where freezing is possible.

7.3 Specific end use(s): See Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Measures and Engineering Controls:

Use a local or general mechanical exhaust ventilation system capable of maintaining emissions below the levels that may cause irritation. No data is available establishing biological limit values.

8.2 Individual Protection Measures:

Wear protective clothing impervious to this material including protective gloves to avoid skin exposure. Wear chemical goggles for eye protection. Safety showers and eyewash stations should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items such as shoes, belts, and watchbands, should be removed and destroyed.

Respiratory Protection: Wear respirator if there is potential for airborne exposure, or inadequate ventilation; check with respirator equipment manufacturer for limitations of respirator.

Eye protection: splash goggles or safety glasses. Face shields are recommended when the operations can generate splashes of sprays or mists.

Hand Protection: Wear appropriate gloves for routine industrial use. Use appropriate gloves for spill response, as stated in Section 6.

Body Protection: Use body protection appropriate for task. Cover-alls, rubber aprons, or chemical protective clothing made from natural rubber are generally acceptable depending on circumstances.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear/pale yellow	Upper/lower flammability or explosive limits: NE
Odor: amine	Vapor pressure (mmHg@21°C): 10.02
Odor threshold: No data available	Vapor density (air=1): ND
pH: alkaline >7	Specific Gravity (water=1): 1.01
Melting point/freezing point: < 0°C (32°F)	Solubility: slightly soluble
Initial boiling point: >35°C (95°F)	Partition coefficient: n-octanol/water: No data available
Flash point: >93.34°C (200°F) Closed cup	Auto-ignition temperature: No data available
Evaporation rate: ND	VOC Content: 0 g/L
Flammability: ND	Viscosity: ND

10. STABILITY AND REACTIVITY

10.1 General: This product is stable under normal conditions.

10.2 Conditions to Avoid: Avoid exposure or contact to extreme temperatures and incompatible chemicals i.e. mineral acids, organic acids, oxidizing agents and reactive metals.

10.3 Incompatible Material: Avoid reactive metals (sodium, calcium, zinc etc.); materials reactive with hydroxyl compounds; CAUTION: N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations; Nitrous acid and other nitrosating agents; Organic acid (i.e. acetic acid, citric acid etc.); Mineral acids; Sodium hypochlorite.; Product slowly corrodes copper, aluminum, zinc and galvanized surfaces; Reaction with peroxides may result in violent decomposition of peroxide possible creating an explosion; Oxidizing agents.

10.4 Decomposition products: Thermal decomposition products of this solution can include a variety of compounds (i.e. carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides and other compounds).

10.5 Hazardous Polymerization: Will not occur by itself. Considerable exothermic reaction with amine resins is possible.

11. TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure: Target organs include eyes, skin, mucous membranes, and lungs.

11.2 Toxicity Data: Additional toxicology information for components greater than 1 percent in concentration is provided below.

	Aliphatic amine: (CAS No. N/A)	Paratertiarybutylphenol: (98-54-4)
Acute Oral Effects (LD50):	(Rat) 980 mg/kg	(Rat) >2,000 mg/kg OECD Test guideline 401
Acute Dermal Toxicity (LD50):	(Rabbit) 2,000 mg/kg	(Rabbit) > 2,288 mg/kg
Inhalation LC50	(Rat) 1.34 mg/l	(Rat) LCLO: 5.6 mg/l OECD Test Guideline 403
Skin Irritation:	Causes skin burns	(Rabbit) Moderate Irritation-4h OECD Test Guideline 404
Eye Irritation:	Risk of serious damage to eyes	(Rabbit) Severe Irritation-24h OECD Test Guideline 405

Sensitization	ND	Maximization Test (GPMT) – Guinea pig Result: Does not cause skin sensitization OECD Test Guideline 406
Intraperitoneal	LD50: 78 mg/kg	(Mouse)
Mutagenicity	This product is not reported to cause teratogenic effects in humans.	This product is not reported to cause teratogenic effects in humans.
Carcinogenicity	ND	Hamster – Oral Tumorigenic: Neoplastic by RTECS criteria. Gastrointestinal: Tumors IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 01% is identified as a carcinogen or potential carcinogen by OSHA.
Teratogenicity	This product is not reported to cause teratogenic effects in humans.	This product is not reported to cause teratogenic effects in humans.
Reproductive Toxicity	This product is not reported to cause teratogenic effects in humans	This product is not reported to cause teratogenic effects in humans.

11.3 Suspected Cancer Agent: The major components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA; and are therefore not considered to be, nor suspected to be, cancer-causing agents by these agencies.

11.4 Tissue Irritation/Sensitization: This product is moderately irritating to contaminated tissue. Prolonged or repeated skin contact can result in the development of rashes, and other allergy-like symptoms. Corneal edema may give rise to a perception of “blue haze” or “fog” around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere. Causes eye burns. May cause blindness. Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

11.5 Medical conditions aggravated by over-exposure: Pre-existing skin disorders may be aggravated by over-exposure to this product. Can cause severe eye, skin and respiratory tract burns. Inhalation of aerosol may cause irritation to the upper respiratory tract. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Risk of serious damage to the lungs (by inhalation).

**A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.*

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Aliphatic amine: (CAS No. N/A) toxic to algae

Test	Result	Dose	Exposure
Toxicity to algae	EC50 12 mg/l	Scenedesmus subspicatus	72 hours

12.2 Persistence and degradability: ND

12.3 Mobility in soil: No data available

12.4 Bioaccumulation: ND

12.3 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

13.1 Safe Handling and Methods of disposal of waste residues, including disposal of any contaminated package:

Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill and/or disposal in accordance with local, state, and federal regulations. Any disposal of this product to surface water in the United States is prohibited. Unused contents and residue from container must be incinerated or deep-well injected and should not be disposed to surface in the United States. The product should not be allowed to enter drains, water courses or the soil; dispose of this material and its container in a safe way.

13.2 Safe Handling: Follow steps at Section 8 for disposal, including using a ventilation system and wearing protective gloves and goggles.

14. TRANSPORT INFORMATION

14.1 UN number: UN3066

14.2 Proper shipping name: Paint Related Material

14.3 Class: 8

14.4 Packing group: II

14.5 Marine pollutant: (DOT, IATA, TDG) No; (IMDG) Yes, (Paratertiarybutylphenol)

14.6 Emergency Schedules: ND



15. REGULATORY INFORMATION

15.1 Occupational Safety and Health Act (OSHA): This Safety Data Sheet (SDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.2 SARA Reporting Requirements: The components of this product are not subject to the reporting requirements of Sections 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. SARA Threshold Planning Quantity: Not applicable.

15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.

15.4 CERCLA Reportable Quantity (RQ): Not listed

15.5 Other Federal Regulations: Section 311/312 Hazard Categories: Sections 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA CLASSIFICATIONS: Acute Hazard: YES Chronic Hazard: YES Fire Hazard: NO
Pressure Hazard: NO Reactive Hazard: NO

15.5 State Regulatory Information: Components of this product are not covered under specific State regulations.

15.5.1 New Jersey Right-to-know: No listings

15.5.2 Pennsylvania Right-to-know: No listings

15.5.3 California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

15.6 WHMIS Classification: No listings

16. OTHER INFORMATION

16.1 NFPA Hazard Classification: Health: 2 Flammability: 1 Reactivity: 0 Other: N/A

16.2 Disclaimer: The facts and recommendations contained herein are based on our own research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made as we cannot cover every possible application for our products, nor anticipate variations encountered in manufacturing equipment and methods. OBEX urges users of this product to evaluate its suitability and compliance with all applicable laws and regulations.

16.3 SDS Distributed by: OBEX Co. | 740 N 5th Street | Jacksonville, OR 97530 | Phone: 844-265-3535 | www.obexco.com