

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Xtreme Engineered
Floor Systems
3303 Hudson Trails Dr.
Hudsonville, MI 49426
Phone: 1.800.234.8208 Fax: 1.616.896.8332

Product Name: V-8 REV M.V.P. (Moisture Vapor Protection)

Product Description: Clear Hardener

Product Code: T11000 (Part B)

Chemical Family: Aliphatic amines

SECTION II – HAZARDS IDENTIFICATION

Emergency Overview

Harmful in contact with skin.
Harmful if swallowed.
Toxic by inhalation.
Components of the product may affect the nervous system.
Severe respiratory irritant.
Severe skin irritant.
Severe eye irritant.
May cause sensitization by skin contact.

Potential Acute Health Effects

Inhalation	Toxic by inhalation. Harmful if inhaled and may cause delayed lung injury. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of over exposure can result in respiratory failure. May cause nose, throat and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
Eye contact	Severe eye irritation
Skin Contact	Harmful in contact with skin. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Symptoms of overexposure may be head ache, dizziness, tiredness, nausea and vomiting.
Ingestion	Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.

Chronic Health Hazard

This product contains no listed carcinogens according to IARC, ACGIH, NTP, and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Exposure Guidelines

Target organs	Respiratory system, skin, eyes and central nervous system.
Symptoms	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause sore throat.

Aggravated Medical Condition

Neurological disorders, asthma, skin disorders, allergies and eye disease.

SECTION III – PRODUCT COMPOSITION

Chemical Name	CAS #	% By Weight
Benzyl Alcohol	100-51-6	0-45%
Benzene- 1,3- dimethaneamine (aliphatic amine)	1477-55-0	0-20%

SECTION IV – FIRST AID MEASURES

-General Advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

-Eye Contact: Rinse immediately with plenty of water for at least 15 minutes.

-Skin Contact: Immediately remove contaminated clothing and any extraneous chemical. If possible, do so without delay. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

-Ingestion: Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

-Inhalation: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

SECTION V – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam, carbon dioxide, dry chemical, dry sand, limestone powder.

Specific Hazards

May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion, an increased formation of oxides of nitrogen is to be expected. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

Special Protective Equipment for Fire Fighters

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for firefighting if necessary.

Further Information

Do not allow run off from firefighting to enter drains or water courses.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use self contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental Precautions

Conduct a dike to prevent spreading.

Methods for Cleaning Up

Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional Advice

Open enclosed spaces to outside atmosphere. Evacuate area and do not approach spilled product. If possible, stop flow of product.

SECTION VII – HANDLING AND STORAGE

Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well ventilated areas. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Do not store near acids. Keep containers tightly closed in a dry, cool and well ventilated place.

Technical Measures/Precautions

Do not store in reactive metal containers.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal Protective Equipment

Respiratory Protection: Wear appropriate respirator when ventilation is inadequate. Hand

Protection: Neoprene gloves, PVC disposable gloves, nitrile rubber gloves. The break through time of the selected glove must be greater than the intended use period.

Eye Protection: Chemical resistant goggles must be worn.

Skin and Body Protection: Long sleeve shirts and trousers without cuffs. Impervious clothing.

Environmental Exposure Controls: Construct a dike to prevent spreading.

Special Instructions for Protection and Hygiene: Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers.

Exposure Limit(s)

Benzyl alcohol	TWA: WEEL	10 ppm.	44.20 mg/m ³
Benzene-1,3-dimethaneamine	Ceiling limit value: ACGIH	- - -	0.1 mg/m ³
Benzene-1,3-dimethaneamine	Ceiling limit value and time period (if specified):NIOSH	- - -	0.1 mg/m ³
Benzene-1,3-dimethaneamine	Ceiling limit value: OSHA ZiA	- - -	0.1 mg/m ³

Benzene-1,3-dimethaneamine	Ceiling limit value: US CA OEL	- - -	0.1 mg/m ³
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SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Color: light yellow
Odor: Amine-like
Relative density: 1.1 (water= 1)
Vapor pressure: 7.50 mmHg at 70 deg. F (21 deg. C)
Density: 68.671 lbs/ft³ (1.1 g/cm³) at 70 deg. F (21 deg.C)
pH: > 11
Boiling point/range: > 225 deg. F (> 107.22 deg. C)
Flash point: > 112.78 deg. C
Water solubility: slightly soluble
Viscosity: 200-350 mPa.s at 77 deg. F (25 deg. C)

SECTION X – STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Materials to Avoid: Sodium hypochlorite, organic acids (e.g., acetic and citric acid), mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive metals (e.g., sodium, calcium, zinc, etc.), Materials reactive with hydroxyl compounds. Oxidizing agents.

Hazardous Decomposition Products: In case of fire, hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide, nitric acid, ammonia, nitrogen oxides. Nitrogen oxide can react with water vapors to form corrosive nitric acid. Aldehydes. Flammable hydrocarbon fragments.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion: LD50 : > 1,230 mg/kg, Species: Rat

Inhalation: No data is available on the product itself.

Inhalation:

Benzyl alcohol: LC50 (4 hours) : >4.178 mg/L, Species: Rat
OECD test guideline 403

Dermal: No data is available on the product itself.

Dermal:

Benzyl alcohol: LD50 : 2,000 mg/kg, Species: Rabbit
Benzene- 1,3- dimethanamine: LD50 : 2,000 mg/kg, Species: Rabbit

Eye irritation/Corrosion: Severe eye irritation.

Skin irritation/Corrosion: Destruction of skin tissue as a result of up to 4 hours exposure, Species: Rabbit skin. Corrosive in an in-vitro test.

Sensitization: May cause sensitization by skin contact.

Chronic Health Hazard

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain , thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two year study with rats and mice.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity: No data is available on the product itself.

Toxicity to fish

Benzyl alcohol: LC50 (96 hours): 10 mg/L., Species: Bluegill, sunfish

Benzyl alcohol: LC50 (96 hours): 460 mg/L. Species: fathead minnow

Toxicity to Algae

Benzyl alcohol: IC50 (72 hours): 700 mg/L., Species: Algae

Benzene-1,3- dimethanamine: EC50 (72 hours): 12 mg/L., Species: Scenedesmus subspicatus

Toxicity to other organisms: No data available

Persistence and Degradability

Biodegradability: No data is available on the product itself.

Mobility: No data available.

Bioaccumulation: No data is available on the product itself.

Benzyl alcohol: Low bio accumulation potential.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal

Material that cannot be used or chemically reprocessed must be disposed of at an approved facility in accordance with local government regulations. Completely discharge containers in accordance with local, state and federal regulations.

SECTION XIV – TRANSPORT INFORMATION

DOT:

UN/ID #: UN2735

Proper shipping name: Amines, liquid, corrosive, n.o.s., (aliphatic amine)

Class or Division: 8

Packing Group: III

Label(s): 8

Marine Pollutant: No

SECTION XV – REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Components: None.

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard class: Corrosive, Sensitizer.

EPA SARA Title III Section 312 (40 CFR 370) Hazard classification: Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above "de minimus" level: None

U.S. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification: Toxic material causing other toxic effects: Corrosive material.

SECTION XVI – OTHER INFORMATION

HMIS hazard Ratings: Health: -3- Flammability: -1- Chemical Reactivity: -1-

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customer, and the protection of the environment.

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