

SAFETY DATA SHEET

SECTION 1: Identification

Trade Name: MAINSTAY DS-5 A

Supplier and manufacturer:
MADEWELL PRODUCTS CORPORATION
7561 INDUSTRIAL COURT
ALPHARETTA GA 30004
PHONE: 770-475-8199
FAX: 770-475-8167

Emergency phone
PERS 800-633-8253

SECTION 2: Hazard(s) Identification

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350	May cause cancer

GHS Precautions

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 hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P285	In case of inadequate ventilation wear respiratory protection
P321	Specific treatment (see instructions on this label)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously 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
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician

Signal Word: Danger



SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
BISPHENOL-A/EPICHLOROHYDRIN EPOXY RESIN	25068-38-6	40.00% - 50.00%
TALC	14807-96-6	10.00% - 20.00%
GLYCIDYL ETHER C12-C14 ALCOHOLS	68609-97-2	5.00% - 10.00%

SECTION 4: First Aid Measures

Inhalation: Move person to fresh air. Get medical attention if symptoms develop.

Eye contact: Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids. Get medical attention if symptoms persist.

Skin contact: Drench the affected area immediately with plenty of water, remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation, rash, or other adverse effects occur.

Ingestion: DO NOT induce vomiting; rinse mouth then drink plenty of water; get medical attention if symptoms persist.

Most important symptoms and effects, both acute and delayed
Skin irritation, allergic reactions.

SECTION 5: Fire Fighting Measures

Flash Point: 142 C (288 F)

LEL: N/A

UEL: N/A

Extinguishing media: Carbon dioxide, alcohol resistant foam, dry chemical, water fog; use water spray to cool fire-exposed containers. Do not use direct water stream which may spread fire.

Unusual fire/ expl. hazards: Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, phenolics; smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

Fire equipment: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Isolate area; ensure adequate ventilation; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes and clothing; keep unnecessary and unprotected personnel from entering the involved area.

Environment precautions;

Prevent contamination of soil and water. Prevent from spreading or entering into drains ditches, waterways by using sand, earth or appropriate barriers.

Method and material for containment and cleaning up

Absorb with sand, diatomaceous earth or universal binders and collect into suitable disposal container. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

SECTION 7: Handling and Storage

Precautions for safe handling

Ensure adequate ventilation of workplace and storage areas; avoid skin contact; do not breathe mist, vapors, spray; use recommended personal protective equipment; wash thoroughly after handling. Do not eat, drink or smoke in the work area. Avoid use of electric band heaters (failures of such heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire). Never apply a direct flame to any container of product.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Keep container tightly closed. Recommended storage temperature: 10-35C (50-95F)

SECTION 8: Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
BISPHENOL-A/EPICHLOROHYDRIN EPOXY RESIN 25068-38-6	Not Established	Not Established	Not Established
TALC 14807-96-6	2MG/M3 RESPIRABLE FRACTION	2MG/M3	Not Established
GLYCIDYL ETHER C12-C14 ALCOHOLS 68609-97-2	Not Established	Not Established	Not Established

Occupational exposure limits: OSHA/PEL: None established.

Ensure adequate ventilation through local exhaust.

Follow good industrial workplace practices; do not eat, drink or smoke while handling; wash hands before breaks and at end of workshift; follow recommendations in this SDS.

Eye/face protection

Use safety glasses with side shields.

Skin protection

Wear impervious clothing as necessary to protect against product contact,. Necessity for boots, apron, face shield, etc. will be dependent on any hazards presented in the work process.

Respiratory protection

Although no exposure limits have been established, respiratory protection may be of use if any respiratory irritation or discomfort is noted; if the material is processed at elevated temperatures without adequate ventilation it may be necessary to wear an air-purifying respirator with organic vapor cartridge; respirator use should follow the guidelines of an established respiratory protection program in compliance with 29CFR1910.134.

Hand protection

Wear nitrile rubber, nitrile, neoprene, PVC or other suitable impervious gloves. Gloves selected must have a breakthrough rating appropriate for the work shift.

Other protective equipment

The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency showers should be available.

SECTION 9: Physical and Chemical Properties

Physical state: Viscous liquid
Initial Boiling Point: 200C
Melting Point: Not applicable
Type of Odor: Slight ethereal odor
Odor Threshold: Not determined
Flammability Classification: Combustible IIIB
Flash Point: 252C (486F) (PMCC)
Vapor Pressure: <0.001 mmHg@32C
Vapor Density: >1
Evaporation Rate: <1
Decomposition Temperature: >200C
Solubility in Water: Insoluble
pH: Approximately neutral (1:1 in water)
Octanol/Water Partition Coefficient (log Pow): 3
Autoignition Temperature: >300C (>572F)
Specific Gravity: 1.594 at 20C
Viscosity:

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No dangerous reaction is known under normal use and storage conditions.

Stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions:

Conditions to avoid: Elevated temperatures

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products: By fire: carbon monoxide, aldehydes

SECTION 11: Toxicological Information

Mixture Toxicity

Component Toxicity

25068-38-6	BISPHENOL-A/EPICHLOROXYDRIN EPOXY RESIN Oral LD50: 5,000 mg/kg (RAT)
68609-97-2	GLYCIDYL ETHER C12-C14 ALCOHOLS Dermal LD50: 4,500 mg/kg (RABBIT)

Acute Oral Toxicity: LD50(rat): >5000 mg/kg

Acute Dermal Toxicity: LD50(rabbit); 20,000 mg/kg

Skin Corrosion/Irritation (rabbit): Causes slight skin irritation

Serious Eye Damage eye Irritation (rabbit): Causes serious eye irritation; corneal injury is not likely.

Skin: Causes mild skin irritation; may cause sensitization; once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Eyes: Causes serious eye irritation; pain, irritation, watering, redness.

Ingestion: Low toxicity; incidental ingestion of small amounts not anticipated to be harmful.

Inhalation: Low volatility; not expected to be a significant route of exposure.

Specific Target Organ Toxicity - single exposure (STOT-se): Not classified based on available data.

Specific Target Organ Toxicity - repeated exposure (STOT-re): Not classified based on available data.

Effects of Overexposure

Carcinogenicity: Not Classified based on available data., Not listed by IARC,NTP,OSHA

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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Potential Chronic Health Effects: 90 day (rat) Repeated Dose Oral Toxicity Study NOAEL: 50 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Acute/prolonged toxicity to fish

LC50 (Fathead minnow) (96-hr): 3.1 mg/l

Acute/prolonged toxicity to aquatic invertebrates

EC50 (Daphnia magna) (24-hr): 3.6 mg/l

Acute/prolonged toxicity to aquatic plants

No data available

Toxicity of bacteria, to soil dwelling organisms and to terrestrial plants

No Data available

Chronic toxicity to aquatic organisms

No data available

General effect

Note that product is essentially water insoluble; not expected to present a marine hazard

Persistence and degradability

Biodegradation rate: 5% after 28 days (not readily biodegradable)

Bioaccumulative potential

BCF = 31, Log Pow = 3 (low potential to bioaccumulate in aquatic organisms)

Mobility in soil

No data available

Results of PBT and vPvB assessment (EC reg. 453/2010)

Not classified as persistent, bioaccumulative and toxic

Not classified as very persistent or very bioaccumulative

Component Ecotoxicity

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal: Do not dump to ground, sewers or watercourses. Reuse uncontaminated material when possible. All methods of disposal must be in compliance with all applicable federal, state and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.

Container disposal: Containers should be drained of all residual product prior to disposal; empty/clean containers should be recycled; incinerate or landfill when recycling is not feasible.

SECTION 14 - TRANSPORT INFORMATION

Shipping description

DOT: Not regulated as hazardous for transport

IMDG:

UN3082 Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)

Hazard Class: 9

Packing Group: PG III

EmS No.: F-A, S-F

Cargo/passenger Packing Instruction: 964

Additional Information: MARINE POLLUTANT

Classification of the material for transportation purposes may vary by container volume as well as regional or country variations in regulations.

SECTION 15 - REGULATORY INFORMATION

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

SARA Title III Section 311/312 (40CFR370): Acute health hazard

SARA Title III Section 313 (40CFR372): No reportable components

CERCLA Statute (40CFR302): No reportable quantity components

TSCA Inventory Status: Reported/included

Canadian DSL Status: Reported/included

Canadian WHMIS Classification: D2B

Chemicals known to the State of California to cause cancer or reproductive toxicity: THIS PRODUCTS CONTAINS
ePICHLOHYDRIN cas# 106-89-8 (10 ppm maximum).

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

14808-60-7 QUARTZ 30 - 40% REPRODUCTIVE

Country

Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

SECTION 16 - OTHER INFORMATION

HMIS ratings:

Health 2

Flammability 1

Reactivity 0

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process.)

This information or recommendations contained herein are based on standard product and are proprietary and furnished solely for the use of our customers. This information is provided in good faith and believed to be true and accurate as of the date shown below; however since we have no control over the use conditions or production processes of parties using this product, Madewell Products Corp. cannot accept responsibility for loss, injury or other damages resulting from the use of the product or this or any other information provided by us. Therefore, no guarantees of any kind expressed or implied are made by Madewell Products Corp. with regard to any of their products. Users are advised to perform their own tests and hazard assessments to determine the safety, suitability and relevance of applicable law to the product as it is to be used by them.

Reviewer Revision

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