

SAFETY DATA SHEET

SECTION 1: Identification

Trade Name: 714 PART A

EMERGENCY PHONE: PERS 1-800-633-8253

MANUFACTURER:

Madewell Products Corporation
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SECTION 2: Hazard(s) Identification

GHS Ratings:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ≥ 20.5 mm ² /s at 40°C .

GHS Hazards

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see instructions on this label)
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 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
 P370+P378 In case of fire: Use ... for extinction
 P405 Store locked up
 P403+P235 Store in a well ventilated place. Keep cool
 P501 Dispose of contents/container to ...

Signal Word: Danger



SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
STYRENE	100-42-5	60.00% - 70.00%
GLASS FLAKE	65997-17-3	10.00% - 20.00%
TITANIUM DIOXIDE	13463-67-7	5.00% - 10.00%

SECTION 4: First Aid Measures

INHALATION: Move person to fresh air and keep at rest in a position for breathing: if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; get medical attention.

EYE CONTACT: Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids.

SKIN CONTACT: Rinse immediately with plenty of water: remove contaminated clothing; wash thoroughly with soap and waer for at least 15 minutes. If irritation, rash or other adverse effects develop, get medical attention immediately.

INGESTION: Do NOT induce vomiting unless advised by a physician. Rinse out mouth with water. Call nearest Poison Control Center or physician immediately.

Most important symptoms and effects, both acute and delayed. Harmful in contact with skin, if swallowed or inhaled; can cause severe skin burns and eye damage; may cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

Eye wash stations and emergency showers should be available.

SECTION 5: Fire Fighting Measures

Flash Point: 31 C (88 F)

LEL: 1.0%

UEL: 9.0%

Extinguishing Media

Carbon dioxide, alcohol resistant foam, dry chemical, water fog; use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media

High volume water jet

Special hazards arising from the substance or mixture

Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flash back.

Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors.

Exposure to decomposition products may be harmful to health; combustion products may include but are not

limited to: carbon monoxide carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire; smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

Polymerization will take place under fire conditions. If polymerization occurs in a closed container, there is a possibility it will rupture violently. Cool storage container with water, if exposed to fire.

Hazardous combustion products: Hydrocarbons

carbon dioxide and carbon monoxide

toxic fumes

Advice for fire fighters: 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 pressure water jet as this may spread the area of the fire.

Fire Equipment: Wear self-contained breathing apparatus

SECTION 6: Accidental Release Measures

Personal precautions

Isolate area: ensure adequate ventilation; remove all sources of ignition; use appropriate personal protection equipment. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Halt the flow of materials as soon as practical using appropriate barriers; turn containers leak-side up to stop the escape of liquid. Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

Methods and material for containment and clean up

Soak up with sand, earth, diatomaceous earth or other suitable inert absorbent materials; collect into suitable waste disposal containers. Reuse uncontaminated material when possible. Wash spillage site with large amounts of water, Dispose of in accordance with applicable local and federal environmental control laws and regulations.

SECTION 7: Handling and Storage

Precautions for safe handling

Open drum carefully as content may be under pressure. Avoid formation of aerosol. Ensure adequate ventilation. Prevent inhalation of vapor, ingestion, and contact with skin, eyes and clothing. Keep containers closed when not in use. Precautions apply to empty containers as well. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of mixers, reactors or other equipment containing the material.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry area with adequate ventilation. Do not store with strong oxidizing agents. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
STYRENE 100-42-5	CLV 200 ppm Max conc: 600 ppm TWA 100 ppm	TWA 20 ppm STEL 40 ppm	Not Established
GLASS FLAKE 65997-17-3	Not Established	Not Established	Not Established
TITANIUM DIOXIDE 13463-67-7	TWA 15 MG/M3	TWA 10MG/M3	Not Established

Engineering controls:

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.

Environmental exposure controls

Observe all precautions to prevent contamination of soil and waterways.

Eye/face protection

Wear tight-fitting chemical safety goggles and/or face shield to prevent eye contact.

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

Respiratory protection is required wherever exposure limits are exceeded; use a NIOSH approved organic vapor cartridge respirator following the guidelines of an established respiratory protection program in compliance with 29CFR1910.134

Hand protection

Use suitable impervious neoprene or nitrile rubber gloves. When prolonged or frequently repeated contact may occur, glove material should have a breakthrough time that exceeds 480 minutes; when only brief contact is expected, a glove with a lesser breakthrough rating may be suitable.

Other protective equipment

The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency shower should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care

SECTION 9: Physical and Chemical Properties

PHYSICAL STATE: LIQUID

pH: No data available

RELATIVE EVAPORATION RATE: No data available

MELTING POINT: Not determined

BOILING POINT: 145C/293F

FLASH POINT:84.9F/29.4C (cc)

AUTO IGNITION TEMPERATURE: Not determined

DECOMPOSITION TEMPERATURE: Not determined

VAPOUR PRESSURE: Not determined

RELATIVE VAPOUR DENSITY: 3.6

DENSITY: 11.1LBS/GAL

SOLUBILITY: Insoluble

EXPLOSIVE PROPERTIES: Not determined

OXIDISING PROPERTIES: Not determined

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: Hazardous polymerisation may occur. Vapours may form explosive mixture with air. This product does not present a dust explosion hazard as delivered. However, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.

Conditions to avoid: Heat, flames, and sparks. Excessive heat. Direct sources of heat. Exposure to air and sunlight.

Incompatible materials: Acids, aluminum, aluminum chloride, amines, bases, copper, copper alloys, halogens, iron chloride, metal salts, oxidizing agents, peroxides.

Hazardous decomposition products: Thermal decomposition will generate carbon monoxide, carbon dioxide and nitrogen oxides.

SECTION 11: Toxicological Information

Mixture Toxicity Component Toxicity

Information on toxicological effects

Acute Oral Toxicity: LD50(rat):> 2000 mg/kg

Acute Dermal Toxicity: LD50(rabbit): >2000 mg/kg

Acute Inhalation Toxicity: LD50 (Rat): 1.8 mg/l, 2770 ppm Exposure time: 4h Test atmosphere: vapour. No observed adverse effect level (Humans): 100 ppm Exposure time 7 h Test atmosphere: vapour

Skin Corrosion/Irritation: Causes skin irritation

Serious Eye Damage/Irritation: Causes serious eye irritation

Skin Sensitization): Not classified based on available information. May cause an allergic skin reaction.

Germ cell Mutagenicity: Not classified as mutagenic.

Caracinogenicity: Not classified as carcinogenic. Not listed by OSHA/NTP/IARC.

Reproductive Toxicity: Not classified as reproductive toxin.

Specific Target Organ Toxicity - single exposure: Product not classified based on available data.

Specific Target Organ Toxicity - repated exposure: Product not classified based on available data.

Aspiration Hazard: Possible aspiration hazard alkaline).

Potential Health Effects:

Skin Contact: Corrosive; harmful in contact with skin; may cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage; may cause an allergic reaction.

Eye Contact: Contact with vapors or liquid may cause tearing, blurred vision, severe irritation, possible chemical burns and corneal injury.

Ingestion: Harmful if swallowed; can cause severe and permanent damage to mouth, throat and stomach, may cause injury to the liver and kidneys.

Inhalation: harmful if inhaled; can cause moderate to severe irritation of the respiratory tract.

Chronic Health Effects:

May cause sensitization by contact. Prolonged skin contact may cause irritation, rash, burns or dermatitis; repeated overexposure to vapors and/or liquid may injure the liver, kidneys and respiratory system. May aggravate individuals sensitized to amines.

Effects of Overexposure

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Acute/prolonged toxicity to fish:LC50(Lepomis macrochirus)(96-hr): 4.02 mg/l

Acute/prolonged toxicity to aquatic invertebrates: EC50 (Daphnia magna)(48-hr): 35 mg/l (ATE)

Acute/prolonged toxicity to aquatic plants: EC50(72-hr): >50 mg/l (ATE)

Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants: No data available

Chronic toxicity to aquatic organisms: No data available

General effect: Harmful to aquatic life with long lasting effects.

Persistence and degradability: Not expected to be readily biodegradable

Bioaccumulative potential: One or more products components has a low potential to bioaccumulate

Mobility in soil: No data available; do not allow product to enter soil/subsoil

Results of PBT and vPvB assessment (EC reg. 453/2010): Product not classified as Persistent, Bioaccumulative and Toxic

Product not classified as very Persistent or very Bioaccumulative

Other adverse effects: No other adverse effects are identified

Component Ecotoxicity

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Do not dump to ground, sewers or watercourses. Incinerate or otherwise dispose of 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. Send waste to a licensed waste management company.

Container Disposal: Containers should be drained of all residual product prior to disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty drum.

SECTION 14 - TRANSPORT INFORMATION

DOT, IMDG, AND IATA Proper Shipping Description: UN1866, RESIN SOLUTION, 3, PG III

SECTION 15 - REGULATORY INFORMATION

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

SARA Title III Section 311/312 (40CFR370): Reactivity hazard, acute health hazard, fire hazard, chronic health hazard.

SARA Title III Section 313 (40CFR372): Styrene 100-42-5 10-20%

CERCLA Status (40CFR302): Styrene 100-42-5 Component RQ 1000 lbs.

OSHA/NTP/IARC Carcinogen Status: WARNING This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Benzene 71-43-2

TSCA Inventory Status: Reported/included

Chemicals known to the state of California to cause cancer or reproductive toxicity: Benzene 71-43-2

EU Risk Phrases

Safety Phrase

SECTION 16 - OTHER INFORMATION

HMIS ratings:

Health: 2*

Flammability: 3

Physical hazard: 2

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Reviewer Revision

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