



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 60138 Brushable

UN/ID No UN1866

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Polyester Bonding Putty.

Details of the Supplier of the Safety Data Sheet

Supplier Address

DBF, Inc.
18576 Krause
PO Box 2385
Riverview, MI 48193

Emergency Telephone Number

Company Phone Number

Phone: 734-285-1480

Fax: 734-285-1481

Emergency Telephone

Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

Signal Word

Danger

Hazard Statements

Causes skin irritation

Causes serious eye irritation

Causes damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



Appearance Off-white Viscous liquid

Physical State Liquid

Odor Styrene

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Do not breathe dust/fume/gas/mist/vapors/spray Do
 not eat, drink or smoke when using this product
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Get medical attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 Get medical attention
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects
 Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Calcium Carbonate	1317-65-3	<40
Unsaturated Polyester Polymer	Proprietary	<40
Styrene	100-42-5	<20
Silica, fumed	112945-52-5	<5

4. FIRST AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Skin Contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Call a physician or poison control center immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Causes eye irritation. Causes skin irritation. May cause discomfort if swallowed. May cause irritation to the mucous membranes and upper respiratory tract.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media Water may be ineffective in fighting fire.

Specific Hazards Arising from the Chemical

May form explosive peroxides.

Hazardous Combustion Products Carbon oxides.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective clothing. Fight fire from a protected location. Use water spray to keep fire-exposed containers cool. USE WATER WITH CAUTION.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental Precautions Prevent runoff from entering drains, sewers or streams.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Do not breathe vapors or spray mist. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container closed when not in use. Ground container and transfer equipment to eliminate static electric sparks. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Do not cut, drill, grind, or weld on or near this container; residual vapors may ignite.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from heat and incompatible materials. Protect from sunlight. Protect from contamination. Comply with all national state and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Incompatible Materials Strong oxidizing agents, Acids, Metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Styrene 100-42-5	STEL: 40 ppm TWA: 20 ppm	TWA: 100 ppm (vacated) TWA: 50 ppm (vacated) TWA: 215 mg/m ³ (vacated) STEL: 100 ppm (vacated) STEL: 425 mg/m ³ Ceiling: 200 ppm	IDLH: 700 ppm TWA: 50 ppm TWA: 215 mg/m ³ STEL: 100 ppm STEL: 425 mg/m ³
Silica, fumed 112945-52-5	-	TWA: 20 Million particles per cubic feet	-

Appropriate Engineering Controls

Engineering Controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rated 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
Eye bath, washing facilities, safety shower.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Skin and Body Protection Wear chemical-resistant gloves such as polyvinyl alcohol or Viton. Gloves made from nitrile rubber or polyvinyl chloride (PVC) may be used for brief or intermittent contact. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take consideration for the specific local conditions under which the product is used, such as the danger of cuts, or abrasion. Impervious clothing, and plastic or Rubber boots should be worn as appropriate.

Respiratory Protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Where appropriate, wear approved respirator protection when cutting, grinding, or sanding cured product. Contact health and safety professional or manufacture for specific information.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Styrene
Appearance	Off-white Viscous liquid	Odor Threshold	.016 ppm
Color	Off-white		
Property	The physical-chemical properties of this material have not been fully investigated	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 145 °C / >293 °F	(For unsaturated polyester resin)	
Flash Point	30 °C / 86 °F	(Seta Closed Cup)	
Evaporation Rate	Less than 1	(for styrene) (Butyl Acetate=1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	6.1%	(for Styrene)	
Lower Flammability Limit	1.1%	(for Styrene)	
Vapor Pressure	Not determined		
Vapor Density	3.6	(for Styrene) (Air = 1)	
Specific Gravity	0.96 to 0.99		
Water Solubility	Negligible		
Solubility in Other Solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition Temperature	Not determined		
Decomposition Temperature	Thermal stability not tested	Low stability hazard expected at normal operating temperatures	
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
Styrene loss after catalyzing	Less than .1%	When used as intended.	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Not fully evaluated.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Polymerization can occur.

Conditions to Avoid

Avoid initiators, heat, acids, extended storage.

Incompatible Materials

Strong oxidizing agents, Acids, Metals.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information	The toxicological properties of this material have not been fully investigated
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Inhalation	Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination.
Ingestion	Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Styrene 100-42-5	= 1000 mg/kg (Rat)	-	= 11.8 mg/L (Rat) 4 h
Silica, fumed 112945-52-5	= 3160 mg/kg (Rat)	-	-

Information on Physical, Chemical and Toxicological Effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity	Cobalt is considered a carcinogen when it appears as a respirable-fiber. Styrene is considered a carcinogen when it appears as a respirable-fiber.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Styrene 100-42-5		Group 2B	Reasonably Anticipated	X
Silica, fumed 112945-52-5		Group 3		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - Repeated Exposure	Causes damage to organs through prolonged or repeated exposure.
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Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Styrene 100-42-5	1.4: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.72: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.46 - 4.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.15 - 3.2: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	3.24 - 4.99: 96 h Pimephales promelas mg/L LC50 flow-through 19.03 - 33.53: 96 h Lepomis macrochirus mg/L LC50 static 6.75 - 14.5: 96 h Pimephales promelas mg/L LC50 static 58.75 - 95.32: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 5.4 mg/L 5 min	3.3 - 7.4: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Styrene 100-42-5	2.95

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of in accordance with federal, state and local regulations.

Chemical Name	California Hazardous Waste Status
Styrene 100-42-5	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1866
 Proper Shipping Name Resin Solution
 Hazard Class 3
 Packing Group III
 Reportable Quantity (RQ) 1000 lbs (Styrene)

IATA

UN/ID No UN1866
 Proper Shipping Name Resin Solution
 Hazard Class 3
 Packing Group III

IMDG

UN/ID No UN1866
 Proper Shipping Name Resin Solution
 Hazard Class 3
 Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA Listed
 DSL Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Styrene 100-42-5	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 311/312 Hazard Categories

Acute health hazard Yes
 Chronic Health Hazard Yes
 Fire hazard Yes
 Sudden release of pressure hazard No
 Reactive Hazard No

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Styrene - 100-42-5	100-42-5	<20	0.1

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Styrene 100-42-5 (<20)	1000 lb			X

US State Regulations**California Proposition 65**

This product contains no Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate 1317-65-3	X	X	X
Styrene 100-42-5	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	3	1	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	3	1	Not determined

Revision Date 16-Feb-2014
Revision Note New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet