



MATERIAL SAFETY DATA SHEET

Aves Studio, LLC • PO Box 344 • River Falls, WI 54022

Section 1: Chemical Product and Company Identification

Manufacturer	Emergency Telephone Numbers
AVES Studio, LLC PO Box 344 River Falls, WI 54022	AVES Studio, LLC PO Box 344 River Falls, WI 54022 715-386-9097 For 24 Hour Response Contact: Rocky Mountain Poison and Drug Center 303-739-1110
Product Category	
Two part kit of modeling clay – repair compound	
Product Included	
FIXIT® - All Colors and Versions Part A contains the base material, resin, and the colorant (if any). Part B contains the base material and the catalyst. Part A and Part B mixed 50/50 by weight. Cured FIXIT® gets very hard and durable. Finished product will accept tooling as well as all paints and finishes.	
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Section 2: Information on Ingredients

Part A

A putty like material composed 60% to 100% by weight of blended silicates [CAS 1332-58-7, EG/EC Not listed, EINECS 31094-1; CAS 14807-96-6, EG/EC 2388779] and epoxy resin [CAS 025085-99-8, EG/EC Not registered].
Dry and/or liquid colorants may be suspended in the blend in the range of 0% to 30% by weight.

Part B

A putty-like material composed 60% to 100% by weight of blended silicates [CAS 14807-96-6, EG/EC 2388779] and polymer resin [CAS 68410-23-1, EG/EC Not registered].

FIXIT® Cured

A solid material created by blending equal weights of part A and part B, then allowing that blend to cure and dry.

Section 3: Hazards Identification

Emergency Overview

This set of products is designed to be safe in normal use by artistic professionals, serious crafters or hobbyists, and repair or restoration professionals. It is not intended for use by children.

Conforms to ASTM D4236.

Improper use of large quantities of Parts A and B could lead to eye and skin exposure and possible inhalation and ingestion. Exposed eyes and skin could become red and irritated. Inhalation could produce irritation of the throat and symptoms such as coughing. Ingestion of any component could provoke gastro-intestinal irritation, evidenced by choking, vomiting, or other symptoms. Ingestion of cured FIXIT® could provoke gastro-intestinal irritation. Dust raised by sanding of cured FIXIT® could produce irritation of the throat and symptoms such as coughing.

Parts A and B are non-flammable and non-combustible. Similar compositions have been tested per DOT [49 CFR 173.124 and Appendix E] and UN Manual of Tests and Criteria [Part III, Subsections 33.2.1 and 33.3.1] and found to be non-flammable and non-combustible [non-self-heating]. Cured FIXIT® is not known to be flammable or combustible.

The outer packaging and the plastic containers could burn, releasing oxides of carbon and other irritating/toxic gases.

Section 3: Hazards Identification

HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0 Protective Equipment: B [safety glasses and gloves]	NFPA Rating: 4 – Extreme 3 – High 2 – Moderate 1 – Slight 0 – Insignificant	<div><div>FLAMMABILITY</div><div>HEALTH</div><div>REACTIVITY</div><div>SPECIAL</div><div>0</div><div>1</div><div>0</div><div>0</div></div>	EU Hazard class XN Harmful <div>X</div>
Potential Health Effects			
ACUTE			
Exposure type	Risk	EU Risk/Safety Codes	
EYE:	May produce redness and irritation.	R 36, S 25	
SKIN:	May produce redness and irritation.	R 21, S 24	
INHALATION:	May irritate the mouth and throat.	R 20, S 22	
INGESTION:	Could provoke gastric irritation and nausea.	R 22	
CHRONIC			
Prolonged or repeated eye exposure to parts A or B could produce corneal burns. Prolonged or repeated skin exposure to Parts A or B could provoke dermatitis and/or blisters. Prolonged exposure by inhalation of dust from sanding or grinding cured FIXIT® could produce coughing, burns, breathing difficulty. Ingestion of large amounts could produce esophageal and gastric burns.			
SIGNS AND SYMPTOMS			
“Itchy” sore eyes or skin. Persistent sore throat.			
See Section 11: Toxicological Information			

Section 4: First Aid Measures

First Aid Procedures		
Exposure Route	Directions	EU Risk/Safety Codes
EYE:	Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Seek medical advice if problem persists or worsens.	S 26
SKIN:	Remove contaminated clothing. First rinse affected area with water, then wash with soap and water. If irritation or other symptoms persist, seek medical advice. Launder contaminated clothing.	S 27/28
INHALATION:	If the victim has difficulty breathing move them into fresh air and keep at rest. If problem persists or worsens seek medical attention.	S 63
INGESTION:	Do not induce vomiting unless directed to do so by medical personnel. Seek medical advice if necessary and show this container or label.	S 62
Note To Physician		
None		

Section 5: Fire Fighting Measures

Fire and Explosive Properties

Parts A and B are non-flammable and non-combustible per DOT [49 CFR 173.124 and Appendix E]. Cured FIXIT® is not known to be flammable or combustible.

Flash Point and method	Parts A and B >200 deg F (or 93 deg C) [ASTM D93]
LEL/UEL in air	N/A
Auto-ignition temperature	N/A
Known/anticipated hazardous combustion products	Oxides of nitrogen and carbon, other toxic/irritating gases.

Extinguishing media

Control fire with appropriate media [dry chemical, water spray, water fog, CO₂, foam, or sand/earth].

Fire-fighting Instructions

Due to possibility of evolution of toxic gases, fire fighters should wear NIOSH approved self-contained breathing apparatus and full protective gear. S 43

Section 6: Accidental Release Measures

Material	Directions	EU Risk/Safety Codes
Parts A or B, or cured FIXIT®:	Scrape, shovel or sweep up the material. Dispose of as solid waste, according to local, state, federal regulations. Clean up: Remove any residue with soap and water or Aves® Safety Solvent.	S 40

Section 7: Handling and Storage

Topic	Directions	EU Risk/Safety Codes
Handling	Wear rubber gloves and safety glasses.	S 37/39
	Avoid breathing any dusts or mists generated.	S 22
	After handling, wash hands with soap and water.	S 28
Storage	Keep containers tightly sealed.	S 7
	May be stored in any suitable chemical storage area.	
	Store at temperatures less than 120 deg F [49 deg C]	S 47
FIXIT® Part A and B, and cured FIXIT®, are freeze-thaw stable.		

Section 8: Exposure Controls, Personal Protection				
Engineering Controls				
Provide sufficient natural or mechanical ventilation. S 51				
Personal Protective Equipment [PPE]				
Topic	Directions	EU Risk/Safety Codes		
EYE/FACE	Safety goggles	S 39		
SKIN:	Appropriate disposable gloves [e.g., vinyl or nitrile]	S 37		
RESPIRATORY:	Dust mask when sanding or grinding cured FIXIT®.	S 36 [dust mask]		
Exposure Guidelines [mg/m ³ unless otherwise indicated]				
Item	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Part A, all colors	No data	No data	No data	No data
Part B	No data	No data	No data	No data
Cured FIXIT® [dust from grinding or sanding cured and dried material] Nuisance dust from all colors	10	No data	10	No data
Cured FIXIT® [dust from grinding or sanding cured and dried material] Possible trace amounts of crystalline silica from all colors	0.1	Not listed	0.05	Not listed

Section 9: Physical and Chemical Properties	
Appearance	FIXIT® Part A is a putty-like material with the indicated color. FIXIT® Part B is a putty-like material with a grayish color. Cured FIXIT® is a hard material with the color from Part A.
Odor	Parts A and B: very faint odor reminiscent of "putty". Cured FIXIT®: no odor.
Physical State	FIXIT® Part A or B: semi-soft, putty-like material. Fully Cured FIXIT®: solid.
pH	5% weight basis suspension: Part A: 8.0 Part B: 10.4 Cured FIXIT®: 7.9
Vapor pressure	N/A
Vapor density	N/A
Boiling point	N/A
Freezing/melting point	No form of FIXIT® Part A or Part B freezes or melts. FIXIT® Part A and Part B are FREEZE-THAW STABLE. Fully cured FIXIT® is solid at all temperatures.
Solubility in water	Part A or B: slight Cured FIXIT®: insoluble
% volatiles	Part A or B: <1% if allowed to dry without being mixed, one with the other. Cured FIXIT®: <1% after full cure.
Specific gravity	FIXIT®, Part A: 2.2 FIXIT®, Part B: 1.9 FIXIT®, Cured: 1.7 [water = 1]
VOC content	N/A

Section 10: Stability and Reactivity

Chemical Stability	Stable [Part A or B, or Cured FIXIT®]
Hazardous polymerization	Will not occur [Part A or B, or Cured FIXIT®]
Conditions to avoid	Contact with strong acids or bases [Part A or B, or Cured FIXIT®] Temperatures > 200 deg C (392 deg F) [Part A or B, or Cured FIXIT®]
Incompatibility with other materials	Strong acids or bases [Part A or B, or Cured FIXIT®]
Hazardous decomposition products	Oxides of carbon, nitrogen, other toxic/irritating gases

Section 11: Toxicological Information

Acute Effects [expressed as LD₅₀ or other result in animal]

EYE	Parts A or B: slight irritant. Cured FIXIT®: dust from sanding or grinding may irritate eye.	
SKIN	Parts A or B: slight irritant. May produce contact dermatitis in sensitive individuals.	
INHALATION	See Section 8 for OSHA/ACGIH exposure data.	
	Part A or B, Cured FIXIT®	No data
INGESTION	Product or Ingredient	LD50 for rat or other animal
	Part A or B, Cured FIXIT®	No data

Chronic Effects

No other data available for Parts A or B or for cured FIXIT®.

Carcinogenicity

No named ingredient is listed as carcinogenic by N.T.P., IARC, or OSHA.

Section 12: Ecological Information

Bronze and Aluminum FIXIT® were tested for extractable metals by EPA TCLP. The metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) could not be detected at 0.1 mg/L sensitivity.

There are no data on the effects of Parts A or B or cured FIXIT® on aquatic or terrestrial life forms.

Section 13: Disposal Considerations

Dispose of according to local, state, or federal regulation, as directed in Section 6.

Section 14: Transportation Information

DOT [HM 181]: Not regulated.

International Transport Regulations: Not regulated.

Section 15: Regulatory Information	
U.S. Federal Regulations	
OSHA STATUS	No hazardous ingredients per 29 CFR 1910.1200
TSCA STATUS	Ingredients on TSCA Inventory
FIFRA STATUS	None listed
CERCLA REPORTABLE QUANTITY	None
SARA, TITLE III 302: EXTREMELY HAZARDOUS CHEMICALS	None
SARA, TITLE III 313: TOXIC CHEMICALS	None
RCRA STATUS	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.
European Regulations	
Not listed under EINECS	

Section 16: Other Information
Text, Warnings, or Other Health/Safety Information and EU Risk/Safety Code (if applicable)
Keep out of reach of children.S 2 Wear appropriate disposable gloves [e.g., vinyl or nitrile] when blending Parts A and B.S 37 Wear goggles and dust mask when sanding or grinding cured FIXIT®.S 36 Clean up with soap and water or Aves® Safety Solvent. <i>Conforms to ASTM D4236.</i>
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