



# SAFETY DATA SHEET

Resin

Date Prepared : 05/15/2015

SDS No : 99.0115R

## Ceramic Alloy Putty

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ceramic Alloy Putty  
**PRODUCT CODE:** Ceramic Alloy Putty - Resin

#### MANUFACTURER

Reparex, Inc.  
 5058 Center Drive  
 Latrobe, PA 15650  
**Customer Service:** 724-537-0444

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

INFOTRAC  
 1-352-323-3500 (International)  
 1-800-535-5053 (North America)

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Skin Sensitization, Category 1  
 Skin Irritation, Category 2  
 Eye Irritation, Category 2

##### Environmental:

Aquatic Chronic, Category 2

#### GHS LABEL



Exclamation mark  
 Environment

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H411: Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P102: Keep out of reach of children.  
 P103: Read label before use.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P262: Do not get in eyes, on skin, or on clothing.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P285: In case of inadequate ventilation wear respiratory protection.

##### Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.  
 P312: Call a POISON CENTER/doctor/...if you feel unwell.  
 P363: Wash contaminated clothing before reuse.

**Storage:**

P404: Store in a closed container.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Substance may be harmful if swallowed. May cause vomiting. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness). Contact may cause eye irritation. Prolonged or repeated contact may cause skin irritation.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Serious eye damage/eye irritation

**SKIN:** Skin corrosion/irritation

**SKIN ABSORPTION:** May be absorbed through skin with prolonged and widespread contact.

**INGESTION:** Harmful if swallowed. May cause vomiting. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause cardiovascular disorder and damage.

**INHALATION:** Prolonged or repeated exposure to fumes or mists may cause irritation.

**MEDICAL CONDITIONS AGGRAVATED:** Breathing problems, skin problems.

**ROUTES OF ENTRY:** Inhalation, ingestion, eyes, skin.

**TARGET ORGAN STATEMENT:** Respiratory system, lungs, skin, eyes.

**COMMENTS:** The health and safety hazards are listed separately for the resin and hardener. The final cured product is considered non-hazardous.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Oxirane, 2,2'-[[1-methylethylidene]bis(4,1-phenyleneoxymethylene)]bis-, Homopolymer	30 - 35	25085-99-8
Aluminum Oxide	20 - 25	1344-28-1
Iron	15 - 20	7439-89-6
Chromium	1 - 5	7440-47-3
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	1 - 5	68609-97-2
Hydrogenated Castor Oil	1 - 5	8001-78-3
Graphite (natural)	1 - 5	7782-42-5
Titanium Dioxide	0.1 - 1	13463-67-7
Soluble Compounds, As Mo	0.1 - 1	7439-98-7
Manganese Compounds	0.1 - 1	7439-96-5

**COMMENTS:** Exact percentages of ingredients are proprietary and are withheld as a trade secret.

**4. FIRST AID MEASURES**

**EYES:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists. Get medical advice/attention.

**SKIN:** Take off contaminated clothing. Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove to fresh air. Oxygen or artificial respiration if needed. Call a physician if you feel unwell.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Redness, burning sensation, tearing (watering) of the eyes.

**SKIN:** Substance may cause slight skin irritation.

**INGESTION:** Burning, irritation, upset stomach, intestinal distress.

**INHALATION:** No adverse effects anticipated. Irritation may be caused if product is above room temperature.

**NOTES TO PHYSICIAN:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

**EXPLOSION HAZARDS:** None

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (NIOSH approved or equivalent) and full protective gear.

**FIRE FIGHTING EQUIPMENT:** Carbon Dioxide, dry chemical or foam

**FIRE EXPLOSION:** None Expected.

**SENSITIVE TO STATIC DISCHARGE:**

None **SENSITIVITY TO IMPACT:** None

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb spilled material and place in appropriate container for disposal.

**LARGE SPILL:** Use same methods described for small spills.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Keep out of sewers, streams and waterways.

**SPECIAL PROTECTIVE EQUIPMENT:** Refer to Section 8, Exposure Control/Personal Protection.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

**HANDLING:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid breathing dust or fume. Contaminated work clothing should not be allowed out of the workplace.

**STORAGE:** Keep container tightly closed and in a well-ventilated place. Keep container dry.

**STORAGE TEMPERATURE:** 15°C (60°F) Minimum to 30°C (85°F) Maximum

**SHELF LIFE:** 1 Year

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Aluminum Oxide	TWA	[1]	15 T, [1]				
	STEL			10			
Chromium	TWA		1		0.5		
Hydrogenated Castor Oil	TWA	[2]	[2]	[2]	[2]		
Titanium Dioxide	TWA		15 T		10	NL	NL
	STEL					NL	NL
Manganese Compounds	TWA				(0.2)N		

**Footnotes:**

1. 5 mg/m<sup>3</sup> respirable
2. Exposure limits not established.

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear safety glasses with side shields. Chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent) are recommended.

**SKIN:** Coveralls or work clothes covering skin. Rubber gloves.

**RESPIRATORY:** Not normally needed if used in well ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment.

**PROTECTIVE CLOTHING:** Impervious clothing as necessary to prevent skin contact.

**WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**ODOR:** Sweet

**APPEARANCE:** Paste

**COLOR:** Charcoal

Grey **pH:** Not

Determined

**PERCENT VOLATILE:** None known.

**FLASH POINT AND METHOD:** > 249°C (480°F)

**Notes:** Closed Container

**AUTOIGNITION TEMPERATURE:** > 249°C (480°F)

**VAPOR PRESSURE:** Not

Determined **VAPOR DENSITY:** Not

Determined **BOILING POINT:** Not

Determined **FREEZING POINT:** Not

Determined **MELTING POINT:** Not

Determined **POUR POINT:** Not

Determined

**THERMAL DECOMPOSITION:** Not

Determined **SOLUBILITY IN WATER:** Water

Soluble **EVAPORATION RATE:** Not

Determined

**DENSITY:** Not Determined

**SPECIFIC GRAVITY:** 2.4

**VISCOSITY:** Not Determined

**MOLECULAR WEIGHT:** Not Determined

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** No

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Extreme heat.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Not reactive under normal conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When product burns it may form toxic materials such as carbon dioxide, carbon monoxide, various hydrocarbons, etc.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents. Acids. Bases. Amines.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	> 2000 mg/kg (Rat-Female)		
Hydrogenated Castor Oil	> 2000 mg/kg bw/day (Rat)	> 2000 mg/kg bw/day (Rat)	> 1.86 mg/L (6h) Rat
Titanium Dioxide	> 10.000 mg/kg (Rat)	> 10.000 mg/kg (Rat)	

**EYE EFFECTS:** Causes serious eye irritation.

**SKIN EFFECTS:** Causes skin irritation. May cause an allergic skin reaction.

**CHRONIC:** Prolonged or repeated contact may cause asthma, skin sensitization and other allergic responses.

**CARCINOGENICITY**

Chemical Name	IARC Status
Chromium	3
Titanium Dioxide	2B

**Notes:** The materials in this product do not separate from the mixture or in of themselves become airborne, therefore do not present a hazard in normal use.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Not Determined

**BIOACCUMULATION/ACCUMULATION:** Not Determined

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Dispose of this product in accordance with all applicable local, state and federal regulations.

**PRODUCT DISPOSAL:** Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with stabilized and solidified liquids in an approved area. May be incinerated at an appropriate facility. Unreacted components are a special waste. Check local, state and national/federal regulations and comply with the most stringent requirement.

**EMPTY CONTAINER:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated for transport as a dangerous material.

**U.S. SURFACE FREIGHT CLASS:** 55

**ROAD AND RAIL (ADR/RID)**

**PROPER SHIPPING NAME:** Not regulated for transport as a dangerous material.

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Not regulated for transport as a dangerous material.

**VESSEL (IMO/MDG)**

**SHIPPING NAME:** Not regulated for transport as a dangerous material.

**CANADA TRANSPORT OF DANGEROUS GOODS**

**SHIPPING NAME:** Not regulated for transport as a dangerous material.

**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Not classified as hazardous.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Immediate &amp; Delayed

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
Aluminum Oxide	20 - 25	1344-28-1
Chromium	1 - 5	7440-47-3

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**

Chemical Name	Wt.%	CERCLA RQ
Chromium	1 - 5	5,000

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, Homopolymer	25085-99-8
Aluminum Oxide	1344-28-1
Iron	7439-89-6
Chromium	7440-47-3
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	68609-97-2
Hydrogenated Castor Oil	8001-78-3
Graphite (natural)	7782-42-5
Titanium Dioxide	13463-67-7
Soluble Compounds, As Mo	7439-98-7
Manganese Compounds	7439-96-5

**CANADA****WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Toxic

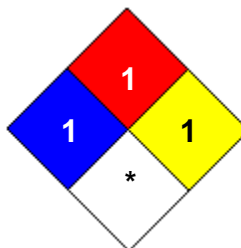
**16. OTHER INFORMATION**

PREPARED BY: Shani Vagnoni-Hull

Date Prepared: 05/15/2015

**HMIS RATING**

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION	*	

**NFPA CODES**

COMMENTS: \* = Section 8

**MANUFACTURER 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.