1. IDENTIFICATION OF THE SUBSTANCE / USE / COMPANY DETAILS

Trade Name: Solcore 100/200/HT & Solcore 3D
Company Identification: SOLTEC Holdings, LLC
3631 E. 44th St. Suite 175
Tucson, AZ 85713
Tel: (520) 775-2211
Fax: (520) 300-7030
info@SOLTECAZ.com

Type of product: Tooling Material
Use: Composite Processing

2. HAZARDS IDENTIFICATION

Symptoms relating to use: Not classified as Hazardous

3. COMPOSITION / INFORMATION ON INGREDIENTS

Specific components and ingredients are considered proprietary and property of SOLTEC LLC.

Calcium Sulfate (Plaster of Paris) CAS# 26499-65-0 Greater than %50

4. FIRST AID MEASURES

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin Contact Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye Contact Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion Plaster of Paris hardens and if ingested may result in stomach and intestinal blockage. Drinking gelatin solutions or large volumes of water may delay setting.

5. FIRE FIGHTING MEASURES

Prevention Do not expose to naked flames or fire. No smoking.
Extinguishing Media Foam, Powder, Sand
Surrounding Fires Use water spray to cool containers
Specific Hazards Under fire conditions, hazardous fumes will be present
Protection for Fire-Fighters Do not enter fire area without Proper Protective Equipment, including respiratory equipment.
Special procedures Exercise caution when entering any lubricant or chemical fire.
6. ACCIDENTAL RELEASE MEASURES

General Precautions  May be slippery if spilled. Remove from ignition sources. Do not breathe fumes or vapors from decomposition.

Personal Precautions  Avoid contact with skin and eyes. No Smoking. Clean up crews should wear proper protective equipment.

Environmental Precautions  Prevent entry to sewers and public water ways. Notify authorities if product enters sewers or public waters.

Clean up methods  Collect spill and put in appropriate container.

7. HANDLING AND STORAGE

GENERAL  Ensure there is adequate ventilation. Avoid all unnecessary exposure to naked flames or potential fire risks. No Smoking.

STORAGE  Store in tightly sealed containers, away from heat, sparks, open flames. Store in cool, dry well ventilated areas.

HANDLING  Ensure prompt removal from eyes, skin, clothing. Wash hands and other exposed areas with mild soap and water before you eat, drink or smoke, leave work. Keep away from food, drink. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

Respiratory Protection  Proper dust respiratory protection should be worn.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Type  Value Form
Plaster of Paris (Calcium PEL 5 mg/m³ Respirable fraction. Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) 15 mg/m³ Total dust.

US. ACGIH Threshold Limit Values

Components Type  Value Form
Plaster of Paris (Calcium TWA 10 mg/m³ Inhalable fraction. (CAS 26499-65-0) 10 mg/m³ Total

NIOSH: Pocket Guide to Chemical Hazards

Components Type  Value Form
Plaster of Paris (Calcium TWA 5 mg/m³ Respirable. Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) 10 mg/m³ Total

Hand Protection  Wear protective clothes

Skin Protection  In the case of possible repeated skin contact wear protective clothing

Eye Protection  Wear approved safety goggles.

Ingestion  When using do not eat, drink or smoke

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20°C  Solid/ Powder
Color  off white
Odor  odorless
pH value  6-8
Density  2.5
Solubility in Water (vol/vol)  Material soluble in water 0.15 - 0.4 g/100 g (H2O)
Auto flammability  N/A
Flash Point  > 200⁰C
10. STABILITY AND REACTIVITY

Hazardous decomposition products
Combustion will generate smoke, carbon monoxide, carbon dioxide, Calcium oxides.
Sulfur oxides.

Hazardous reactions
Acids. Exposure to water and acids must be supervised because the reactions are vigorous and produce large amounts of heat.

Hazardous properties
None under normal conditions.

Materials to avoid
Acids. Exposure to water and acids must be supervised because the reactions are vigorous and produce large amounts of heat.

Conditions to avoid
When mixed with water, this product can become very hot. Encasing or making molds of any body part can cause serious burns that may require surgical removal of affected tissue and even amputation of encased body part.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Not expected to be a hazard under normal conditions of intended use.

12. ECOLOGICAL INFORMATION

On Product
Prevent entry to sewers and public water ways.

Ecological Effects
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)
Aquatic Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours
Bio-accumulation
Product is not expected to bio-accumulate

13. DISPOSAL CONSIDERATIONS

General
Dispose of in a safe manner in accordance with local/national regulations

Disposal method
In accordance with local/national regulations may be taken to waste disposal site.

Disposal of used packaging
Use a licensed waste disposal contractor.

14. TRANSPORT INFORMATION

General Information
Not classified including: UN Class, ADR RID Class, IMDG Class, IATA Class

15. REGULATORY INFORMATION

Symbol(s)
None

R Phrase(s)
None

S Phrase(s)
None

16. OTHER INFORMATION

Product Use:
For Industrial use only. Tooling

The contents and format are in accordance with the following directives:

DISCLAIMER OF LIABILITY:
To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user. The conditions of handling, storage, use or disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim any liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This MSDS was prepared solely for the product stated and should not be used for any other product.