**Safety Data Sheet (SDS)**

**Acor® Impression Foam**

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

IDENTITY:Impression Foam

DATE PREPARED: 07/01/2019

SYNONYMS, CHEMICAL NAMES, COMMON NAMES:

None

USE: Castings and impressions

 DISTRIBUTED BY Acor Orthopaedic, Inc.

ADDRESS 18530 South Miles Parkway

Cleveland, OH 44128

TELEPHONE NUMBER 216-662-4500

800-237-2267

**SECTION 2 -HAZARDS IDENTIFICATION**

**PRIMARY ROUTE(s) OF EXPOSURE:**

Contact and inhalation of dust.

**IRRITATION DATA:**

May cause irritation to eyes and respiratory tract.

**INHALATION:**

ACUTE: Dust or fumes may cause irritation to the nasal passages, lacrimation, olfactory changes, and pulmonary changes.

CHRONIC: None known.

**SKIN CONTACT:**

ACUTE: May cause irritation.

CHRONIC: May cause dermatitis.

**EYE CONTACT:**

ACUTE: Contact may be irritating.

CHRONIC: May cause conjunctivitis.

**INGESTION:**

ACUTE: May cause mouth irritation due to local pH effect.

CHRONIC: Prolonged exposure may cause symptoms similar to acute effects.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

None known.

**SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS**

 **HAZARDOUS COMPONENTS CAS# %**

 Acid catalysts Proprietary 8-12 %

 Barium sulfate 7727-43-7 1.5-3 %

 Heptane 142-82-5 < 1.5 %

 Formaldehyde 50-00-0 < 0.1 %

Other components are non-hazardous or hazardous components are present at less than 1 % (0.1 % for carcinogens.)

**SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES**

INHALATION: Remove from exposure to fresh air. If breathing has stopped, give artificial respiration.

Oxygen may be given if breathing is difficult. Get medical attention.

SKIN CONTACT: Wash affected area with soap and water until no evidence of the material remains. Get medical attention if irritation develops.

EYE CONTACT: Flush thoroughly with water for at least 15 minutes, occasionally lifting the upper and lower lids, until no evidence of the material remains. Get medical attention if irritation develops. If wearing contact lens, remove immediately and flush eyes as above.

INGESTION: Do not induce vomiting. Treat symptomatically and supportively. If a large quantity is ingested, get medical attention since there could be a problem with physical blockage.

**SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT

FLAMMABLE LIMITS: Not applicable

LEL: Not applicable

 UEL: Not applicable

AUTOIGNITION TEMPERATURE: (+/\_) 600°F.

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing smoke. Firefighters should wear full protective NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Finished foam will support combustion if it is ignited by direct contact with an open flame or exposed to temperatures in the range of 600°F. If foam is placed in a microwave for an extended period, it will begin to

burn. Combustion occurs at the center of the brick and due to the insulating effect of the foam, can proceed unnoticed until an appreciable heat buildup occurs.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Wear suitable protective equipment. Reclaim or place in suitable container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

Store in a cool, dry well ventilated area, out of direct sunlight. Foam stored in stagnant or hot enclosures may result in off gassing of residual formaldehyde gas.

Wash thoroughly after handling. Observe good personal and industrial hygiene procedures**.**

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION:

A dust mask is recommended if dust is excessive. Where airborne concentrations may exceed guidelines for permissible air concentrations, choose a respirator in accordance with OSHA Respirator Standard 29 CFR 1910.134.

VENTILATION:

Use general dilution ventilation to maintain exposure below the exposure limits.

PROTECTIVE GLOVES:

Use barrier cream or choose appropriate gloves in accordance with OSHA Personal Protective Equipment Standard 29 CFR 1910.132.

EYE PROTECTION:

Safety glasses are recommended or choose in accordance with OSHA 29 CFR 1910.133.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Not normally required.

RECOMMENDED EXPOSURE LIMITS**:**

OSHA and ACGIH have not set exposure limits for this material. See Section 2 for exposure limits of components and particulate matter.

|  |  |  |
| --- | --- | --- |
| **COMPONENTS** | **OSHA PEL**  | **ACGIH TLV**  |
| Formaldehyde | 0.75 ppm PEL2.0 ppm STEL | 0.3 ppm Ceiling |
| Barium sulfate | 15 mg/m TWA as Ba (Total dust)5 mg/m TWA as Ba (Respirable fraction) | <3 % |
| Heptane | 500 ppm | 400 ppm PEL 400 ppm STEL |

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|  |  |  |  |
| --- | --- | --- | --- |
| **BOILING POINT**  | Not applicable  | **SPECIFIC GRAVITY**  | Not available  |
| **pH**  | 3.0 in 5% slurry  | **MELTING POINT**  | Not available  |
| **VAPOR PRESSURE (mm Hg)**  | Not applicable  | **SOFTENING POINT**  | Not available  |
| **VAPOR DENSITY (Air = 1)**  | Not applicable  | **EVAPORATION RATE**  | Not applicable  |
| **SOLUBILITY**  | Not soluble.  |  |
| **COEFFICIENT OF WATER/OIL DISTRIBUTION:**  | Not applicable.  |  |
| **APPEARANCE AND ODOR:**  | Fine-celled thermoset green phenolic plastic foam.  |  |

**SECTION 10 - STABILITY AND REACTIVITY**

|  |  |  |  |
| --- | --- | --- | --- |
| **STABILITY**   | **Unstable**  |   | **Conditions to Avoid** Stable at normal room temperature.  |
| **Stable**  | X  |
| **INCOMPATIBILITY (Materials to Avoid)**  |
| Normally unreactive.  |
| **HAZARDOUS DECOMPOSITION PRODUCTS** Smoke, oxides of carbon, and possible trace amounts of formaldehyde, phenol, cresols, xylenols, and sulfur dioxide.  |
| **HAZARDOUS** **POLYMERIZATION**  | **May Occur**  |   | **Conditions to Avoid** None known.  |
| **Will Not Occur**  | X  |

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Toxicity studies on a similar compound indicate that the Oral LD50 (rat): >5000 mg/kg.

Primary Dermal Irritation Study in Albino Rabbits on a similar compound: Non irritant

Carcinogenicity: This product may contain trace levels of formaldehyde (<0.1%) as an impurity.

Tumorigenic data (RTECS): Formaldehyde; barium sulfate.

Reproductive data (RTECS): Formaldehyde.

Mutagenic data (RTECS): Formaldehyde; barium sulfate

Teratology data: Formaldehyde

**SECTION 12 - ECOLOGICAL INFORMATION**

This formulation has not been tested for environmental effects. It is a thermoset plastic and is not biodegradable.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable federal, state, and local environmental regulations. Recycling is recommended. It can be cut up and used as a soil filler.

If discarded in its original form, material is not regulated by Resource Conservation and Recovery Act (RCRA) as a hazardous waste. Passes TCLP test requirements.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME Not regulated

DOT CLASSIFICATION Not applicable

DOT UN/NA Material is not a DOT Marine Pollutant.

Not applicable

OSHA:This material may be classified as hazardous under OSHA regulations. See 29 CFR 1910.1048 for the OSHA Formaldehyde Standard.

TSCA:All components are listed or

exempt from listing on the TSCA 8(b) inventory.

**SARA Title III - Toxic chemicals list 40 CFR 372.65**

Copper phthalocyanine CAS# 147-14-8 1-2 %

Barium sulfate is exempt from reporting under the category barium compounds (59FR33208).

**SARA HAZARD CATEGORIES:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Acute Health Hazard  | Chronic Health Hazard  | Fire Hazard  | Reactive Hazard  | Sudden Release of Pressure  |
| Yes  | No  | No  | No  | No  |

**CERCLA Toxic Chemicals List 40 CFR 302:**

Formaldehyde RQ: 100#

A spill in excess of 150,000 pounds would require reporting to the National Response Center based on the maximum residual content of formaldehyde in the foam.

**SECTION 16 – OTHER INFORMATION**

HMIS Ratings:

Health 1

Flammability 1

Reactivity 0