

MRO 4019 – KONKRETE PUTTY

Section 1: Product & Company Identification

Product Name / Trade Name
MRO 4019 – KONKRETE PUTTY

Product Use
Putty

Manufacturers / Suppliers Information
MRO INFRA LLP, VADODARA, INDIA

Pack Type / Size(s)
20 Kg Container

Emergency Telephone Number (0265) 2255770

Fax Number

Website

www.mroinfra.com

Revision Date 18th October 2018

Revision Number 1

Section 2: Composition / Information On Ingredients

Component	CAS Number	Percent By Weight
Water based Polyol	4299-07-4	10-12
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	10-15
Quartz (SiO ₂)	14808-60-7	30-35
Cement,Portland	65997-15-1	20-25
calcium hydroxide	1305-62-0	1-5
Ingredients not contributing to the classification balance		

Section 3: Hazards Identification

Classification of the substance or mixture: ACUTE TOXICITY (inhalation) - Category 4
 SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 RESPIRATORY SENSITIZATION - Category 1
 SKIN SENSITIZATION - Category 1
 CARCINOGENICITY - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Signal word :

Hazard statements :

Danger
 Harmful if inhaled.
 Causes serious eye irritation.
 Causes skin irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 May cause respiratory irritation.
 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention :

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear respiratory protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.

Storage	Store locked up. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification:	None known.

Section 4: First Aid Measures

Description of necessary first aid measures	
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Skin Contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effects, acute and delayed Potential acute health effects	
Eye Contact	Causes serious eye irritation.

Section 5: Fire Fighting Measures

Special Fire Fighting Procedures: Wear self-contained breathing apparatus or equivalent and full protective equipment.

Suitable Extinguishing Media: Material will not burn, however dried film may burn. Use Water, Dry Chemical Powder, CO₂ to extinguish the fire.

Protection of Firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

Unusual Fire and Explosion Hazards: Material will not burn. They may spatter if the temperature exceeds boiling point. Dried polymer films are capable of burning.

Section 6: Accidental Release Measures

Emergency Procedures: Uncontrolled releases should be responded to by trained personnel using pre planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Eliminate all ignition sources.

- Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- Personal Precautions:** Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.
- Methods for Containment:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7: Handling & Storage

- Handling :** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
- Storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure Controls / Personal Protection

- Engineering Control Measures** Adequate to prevent accumulation of vapours. Use mechanical means if necessary to maintain levels below the exposure limits.
- Eyes & Face Protection** Face shield and safety glasses.
- Hand Protection** Wear protective gloves. Rubber or polyethylene material is recommended. Consult manufacturer specifications for further information.
- Respiratory Protection** Use respirators or self-contained breathing apparatus in confined areas and for emergencies. If good ventilation is maintained, none are required.
- Skin Protection** Wear protective clothing. Clothing with full length sleeves and pants should be worn.
- General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices. Provide readily accessible eye wash stations and safety showers. Wash at end of shift and before eating, smoking, or using the toilet. Remove contaminated clothing and launder or discard

Section 9: Physical & Chemical Properties

- Upper Flammability Limit:** Not Available
- Vapor Pressure:** Not Available
- Vapor Density:** Not Available
- Relative Density:** 1.19
- Solubility:** Insoluble
- Partition Coefficient: n** Not Available
- Octanol/Water:**
- Auto-ignition Temperature:** Not Available
- Decomposition Temperature:** Not Available
- Viscosity:** 30,000 – 40,000 cps
- Percent Volatile, wt. %:** 0%
- VOC Content, wt. %:** 0%
- Density:** 1.3 g/cc
- Coefficient of Water/Oil** Not Available
- Distribution:**

Section 10: Chemical Stability & Reactivity

- Stability** Stable under normal conditions
- Conditions To Avoid** Amine compounds under uncontrolled conditions.
- Chemical Incompatibility** Strong oxidizing agents.
- Hazardous Decomposition** CO, CO₂, smoke, toxic vapors

Section 11: Toxicological Information

- Primary Irritant Effect On the Skin:** Irritant to skin and mucous membranes.
- Primary Irritant Effect on the Eye:** Irritating effect.

Swallowing: Can cause abdominal irritation, nausea, vomiting, and diarrhea.

Section 12: Ecological Information

Toxicity:	All work practices must be aimed at eliminating environmental contamination.
Mobility in Soil :	No further relevant information available.
Persistence / Degradability	The product is partially biodegradable. Significant residue remains
Bioaccumulation	Does not accumulate in organisms.
Ecotoxic Effects Remark:	Toxic for fish. Due to mechanical actions of the product damages may occur. The declared action may be partly caused by lack of oxygen.

Section 13: Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

Uncleaned Packaging: Empty containers may contain residue and may be dangerous. Do not attempt to refill or clean without proper instructions. Empty drums should be drained and stored safely for reconditioning or recycling.

Section 14: Transportation Information

Conveyance classification: Not classified

Section 15: Regulatory Information

Hazard classification: Irritant

Risk phrases: Irritating to eyes, respiratory system and skin. Risk of serious damage to eyes.

Safety phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

NOTE: Contains soluble chromium controlled by the addition of a reducing agent to no more than 2ppm by dry weight of cement when mixed with water, for a period of 12 months from the date of manufacture shown on this package under the stipulated storage conditions. Use of this product after the end of this period or under different storage conditions may increase the risk of an allergic reaction.

Section 16: Other Information

To the best of our knowledge, the information contained herein is accurate. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user. It is not intended to constitute performance information concerning the product. No express warranty or implied warranty of merchant ability or fitness for a particular purpose is made with respect to the product or the information contained herein. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The user is responsible for selecting and determining the suitability of products for purchaser's particular needs and we disclaim any responsibility for improper applications or misuse of our products in any manner whatsoever.

Product Use For Industrial Use Only

Prepared By

Hetav Patel, Technical Services, MRO INFRA LLP