SAFETY DATA SHEETS

FLEXKRETE CATALYST

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FlexKrete Catalyst
MANUFACTURER: Incredible Products LLC. ADDRESS: 1601 McKinley Rd. St. Mary's, OH 45885
INFORMATION PHONE: 567-297-3700 EMERGENCY PHONE: 800-424-9300
September 13, 2022

SECTION 2: HAZARDOUS IDENTIFICATION

Classification:
Skin Irritation: Category 2
Eye Irritation: Category 2B
Respiratory Sensitizer: Category 5
Skin Sensitizer: Category 1
Carcinogenicity: Category 2

Signal Word: Danger

Hazardous Statements- Health:
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H371 May cause damage to organs.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.

Precautionary Statements- General:
Substance that is an organic peroxide.
6.1D Substance that is acutely toxic if swallowed.
6.1D Substance that is acutely toxic by inhalation.
6.9B Substance that is harmful to human target organs or systems.
8.2B Substance that is corrosive to dermal tissue.
8.3A Substance that is corrosive to ocular tissue.
9.1B Substance that is ecotoxic in the aquatic environment.
9.3C Substance that is harmful to terrestrial vertebrates

Precautionary Statements- Prevention:
P102 Keep out of reach of children.
P103 Read label before use.
P104 Read Safety Data Sheet before use.
P210 Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P220 Keep/Store away from clothing and other combustible materials.
P234 Keep only in the original container.
P260 Do not breathe mist, vapours or spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary Statements - Response:
P101 If medical advice is needed, have the product container or label at hand.
P301+P330+P331 INGESTION: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor/physician.
P304+P340 INHALATION:IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P303+P361+P353 SKIN: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P310 Immediately call a POISON CENTRE or doctor/physician.
P363 Wash contaminated clothing before reuse.
P305+P351+P338 EYES: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P309+P311 If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P391 Collect spillage.

Precautionary Statements - Storage:
P405 - Store locked up.
P411+P235 Store at temperatures not exceeding 30°C. Keep cool.
P410 Protect from sunlight.
P420 Store away from other materials.

Precautionary Statements - Disposal:
P501 - Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENT	CAS	WEIGHT %
Methyl ethyl ketone peroxide	1338-23-4	30-60%
Dimethyl phthalate	131-11-3	30-60 %
Phlegmatiker	Trade Secret	10-<30 %
Methyl Ethyl Ketone	78-93-3	<10 %
Hydrogen peroxide	7722-84-1	<5 %

SECTION 4: FIRST AID MEASURES

INHALATION:
Remove the source of exposure or move the person to fresh air and keep them comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

SKIN CONTACT:
Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard. IF exposed or concerned: Get medical advice/attention.

EYE CONTACT:
Remove the source of exposure or move the person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention. Avoid direct contact. Wear chemical protective gloves, if necessary.

INGESTION:
Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Give 1 or 2 glasses of milk or water to drink and refer the person to medical personnel. Do not give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
Use carbon dioxide, foam, water fog. Water fog or fine spray is the preferred extinguishing media for large fires.

UNSUITABLE EXTINGUISHING MEDIA:
N/A

Specific Hazards in Case of Fire:
CAUTION! DRY CHEMICAL CAN CAUSE MEKP TO RE-IGNITE. If confined in a rigid container (glass, metal, thick plastic) it could rupture violently. Exposure to a temperature of 60°C or greater may result in violent decomposition. This product will intensify any fire that it is involved in.

Fire-fighting Procedures:
Isolate immediate hazard areas and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from the immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:
Wear NIOSH approved self-contained breathing apparatus in positive pressure mode with a full-face piece. Boots, gloves (neoprene), goggles, and full protective clothing are also required. Care should always be exercised in dust/mist areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure:
Keep unnecessary people away; isolate the hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Recommended Equipment:
Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:
Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7: HANDLING AND STORAGE

GENERAL:
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

VENTILATION REQUIREMENTS:
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Air circulation and exhaustion of isocyanate vapors must be maintained until the coatings have fully cured to insure that no potential health hazard remains. Exposure to vapors of heated isocyanates can be extremely dangerous.

STORAGE ROOM REQUIREMENTS:
Store in a cool, well-ventilated and fire-resistant location. Shield containers from direct sunlight and maintain storage temperature ideally below 27°C. Avoid any conditions that may cause drying or contamination. Do not leave material uncovered. Store in a proper storage area and remove only as needed. Keep material in its original container. Isolate from acids, alcohols, ethers, reducing agents and polymerisation catalysts. Have appropriate fire extinguishers available in and near the storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:
Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for the entire face, use it in combination with a face shield.

SKIN PROTECTION:
Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile or rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated

RESPIRATORY PROTECTION:
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect workers, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. When airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against isocyanates.

APPROPRIATE ENGINEERING CONTROLS:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY:
1.1
BOILING POINT:
Decomposes
EVAPORATION RATE:
N/A
VAPOR DENSITY:
>1
SOLUBILITY IN H2O:
Slightly soluble

SECTION 10: STABILITY AND REACTIVITY

STABILITY:
Stable when kept in original closed containers at ambient temperatures.
CONDITIONS TO AVOID:
Exposure to direct sunlight, open flame or sparks, prolonged storage above 38°C, or sources of ignition and contamination. Avoid contamination with any materials. Never mix directly with accelerators or promoters. Do not confine in closed systems or equipment. Do not return unused product to original container.
HAZARDOUS REACTIONS/POLYMERIZATION:
Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Polymerization will not occur.
INCOMPATIBLE MATERIALS:
Mineral acids, alkalis, reducing agents, oxidising agents, rust, amines, organic metal salts, transition metals and their compounds (such as iron, copper, brass, bronze, cobalt, nickel, lead), resins, promoters and promoted resins, accelerators and combustible materials, dimethylaniline, sulphur compounds
HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

No toxicity data are available for this specific product. The available data for the ingredients are as follows: For Methyl ethyl ketone peroxide: LD50 (Oral, Rat): 484 mg/kg For Dimethyl phthalate: LD50 (Oral, Rat): 6,900 mg/kg For Methyl ethyl ketone: LD50 (Oral, Rat): 2,737 mg/kg For Phlegmatiser: LD50 (Oral, Rat): >3,200 mg/kg For Hydrogen peroxide: LD50 (Skin, Rat): 4,060 mg/kg

Inhalation Severely irritates the respiratory system. Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

Ingestion Harmful if swallowed. May burn the mouth, gullet and stomach. If swallowed, decomposition may occur in the stomach leading to the production of oxygen gas. This may cause distension of the stomach. A case of toxic myocarditis has been reported following ingestion.

Skin Moderately corrosive to skin. May cause delayed chemical burns. In some cases transient whitening of the skin may occur.

Eye Causes burns. Extremely irritating and corrosive. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage. May cause permanent eye damage if Immediate First Aid action is not taken. Vapour may also cause irritation.

Chronic Effects Repeated or prolonged exposure to this material will result in severe skin irritation and may aggravate existing respiratory disorders.

Carcinogenicity Hydrogen peroxide has been classified by the Occupational Safety and Health Service of the Department of Labour as an A3 carcinogen. A confirmed animal carcinogen with unknown relevance to humans.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity For Methyl ethyl ketone peroxide: EC50
(Guppy): 44.2 mg/L/96Hr EC50
(Algae): 42,700 µg/L/96Hr EC50
(Activated sludge): 16 mg/L

Persistence / Degradability Methyl ethyl ketone has been reported to be readily biodegradable.

Mobility N/A

Environment Protection Do not discharge product into drains, waterways or sewers.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Under RCRA, it is the responsibility of the user of the product, to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse

SECTION 14: TRANSPORTATION INFORMATION

U.N. Number 3105
Proper Shipping Name ORGANIC PEROXIDE TYPE D, LIQUID - (Contains Methyl ethyl ketone peroxide <=45%)
DG Class 5.2
Hazchem Code 2WE
Special Precautions for User IMDG 5.2.
EPG Number 5K1
IERG Number 32

SECTION 15: REGULATORY INFORMATION

Regulatory Information: Classified as Hazardous according to criteria of National Occupational Health & Safety Commission. Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons.

Poisons Schedule: S5

Hazard Category: Harmful,Corrosive,Oxidising

SECTION 16: OTHER INFORMATION

DISCLAIMER:
The information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.