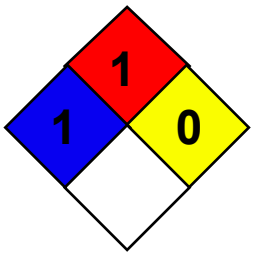

SAFETY DATA SHEET

DT-FWR 027

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

OSM SHIELD TRADE NAME: DT-FWR 027

FEATURE AND APPLICATION: Fluoroalkyl acrylate copolymer emulsion

COMPANY:
OSM Shield, LLC.
97 Main St. Suite W-202
Edwards, CO 81632

EMERGENCY PHONE: 1-800-424-9300

PRODUCT INFORMATION: +1 970-390-8717

SECTION 2: HAZARD IDENTIFICATION

GHS CLASSIFICATION:
Eye Irritation – Not Classified
Skin Irritation – Not Classified
Acute Toxicity – Not Classified
Respiratory Sensitization – Classification Not Possible
Skin Sensitization – Not Classified

GHS LABEL REQUIREMENTS:
Symbol – None
Signal Word - None
Hazard Statement(s) – None
Precautionary Statement(s) - None

OTHER HAZARDS: Hazardous decomposition products including hydrogen fluoride and other toxic fluorinated compounds may be formed at high temperatures and during combustion. Inhalation of these compounds may result in serious lung irritation. Excessive exposure could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys.

SECTION 3: INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	Wt%
Water	7732-18-5	62.5
Fluoroalkyl acrylate copolymer	Trade Secret	
Emulsifiers	Trade Secret	30
Tripropylene glycol	24800-44-0	7.5

SECTION 4. FIRST AID MEASURES

INGESTION: Consult a physician immediately.

EYE CONTACT: Flush with large amounts of water for 10-15 minutes. Consult a physician if needed.

SKIN CONTACT: Wash affected area with soap and water. Remove contaminated clothing and shoes.

INHALATION: Leave the contaminated area and seek fresh air. If breathing is difficult, contact a physician.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	**Alcohol foam, CO_2, dry chemical or water spray**
PROTECTIVE EQUIPMENT:	**Use NIOSH/MSHA approved SCBA and bunker gear. Evolution of acidic gases may require complete wash down of protective clothing prior to removal.**
HAZARDOUS COMBUSTION PRODUCTS:	**In case of fire or if processing at high temperatures, toxic gases including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed.**

SECTION 6. ACCIDENTAL RELEASE MEASURES

Ensure cleanup is done only by trained personnel wearing appropriate personal protective equipment.
Ventilate area and cover with absorbent material.
Collect spilled material in a container and seal.
Spilled material is a slipping hazard.

SECTION 7. HANDLING & STORAGE

HANDLING

Follow safe industrial hygiene practices and wear proper protective equipment.
Use only in well ventilated areas.
Wash hands thoroughly after handling.
Wash clothing after use.
Avoid contact with skin or eyes.
Do not breathe vapor or spray.
Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
If smoking tobacco becomes contaminated by this material, exposure to toxic gases through inhalation can occur. Therefore, do not smoke in the work areas and wash hands and face after handling in order to avoid transfer of material onto tobacco.

STORAGE

Store material at -5 °C (23 °F) to 40 °C (104 °F).
Keep away from heat, steam, sunlight, sparks and open flame.
Store containers tightly closed when not in use.

SECTION 8. EXPOSURE CONTROLS & PERSONAL PROTECTIVE EQUIPMENT

EXPOSURE LIMITS:	**No exposure limits available for the product.** **Excessive exposure to thermal degradation products could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys. These substances may include: perfluoroisobutylene (TLV = 0.01 ppm Ceiling), carbonyl fluoride (TLV = 2 ppm TWA, 5 ppm STEL), hydrogen fluoride (TLV = 2 ppm Ceiling, 0.5 ppm TWA).**
RESPIRATORY PROTECTION:	**Use respirator suitable for protection when spraying this material. If material is heated above 200 °C, use a positive pressure air supplied respirator or SCBA.**
EYE PROTECTION:	**Safety glasses with side shields or goggles**
PROTECTIVE CLOTHING:	**Chemical resistant gloves and protective clothing should be worn when handling this material.**
VENTILATION:	**Use local exhaust ventilation if material is heated above 200 °C.**
OTHER PROTECTIVE EQUIPMENT:	**Eyewash station and safety shower.**

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	**Off white or pale yellowish liquid**
ODOR:	**Slight sweetish odor**
ODOR THRESHOLD:	**Not Available**
pH:	**2.5**

MELTING POINT:	**Not Applicable**
FREEZING POINT:	**Approximately 0 °C**
BOILING POINT/RANGE:	**Approximately 100 °C (water)**
FLASH POINT:	**> 200 °F (Closed Cup), > 209 °F (Open Cup)**
FLAMMABLE LIMITS:	**LEL – Not Available** **UEL – Not Available**
EVAPORATION RATE (Butyl acetate=1):	**Not Available**
VAPOR PRESSURE:	**Not Available**
VAPOR DENSITY:	**Not Available**
SPECIFIC GRAVITY (H_2O=1):	**Approximately 1.1 at 25 °C**
APPARENT DENSITY:	**Not Available**
SOLUBILITY(IES):	**Miscible in water**
PARTITION COEFFICIENT (n-octanol/water):	**Not Available**
AUTO-IGNITION TEMPERATURE:	**Not Available**
DECOMPOSITION TEMPERATURE:	**Not Available**
VISCOSITY:	**Not Available**

SECTION 10. STABILITY & REACTIVITY

STABILITY:	**Stable**
CONDITIONS TO AVOID:	**Excessive heat, sparks, and open flame**
INCOMPATIBILITIES:	**May react with metals, such as sodium, magnesium, aluminum at elevated temperatures (above 425 °C); may react upon prolonged exposure to fluorine or in oxygen-fluorine mixtures at high temperatures and pressures. Contact with incompatible materials may result in fire or explosion.**
HAZARDOUS POLYMERIZATION:	**Should not occur**
HAZARDOUS DECOMPOSITION:	**Decomposition or by-products and toxic by-products including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed at very high temperatures.**

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS OF EXPOSURE

Ingestion:	**May be harmful if swallowed**
Eye Contact:	**May cause mild irritation**
Skin Contact:	**May cause skin irritation**
Inhalation:	**May cause respiratory irritation**

CHRONIC EFFECTS OF EXPOSURE:	**No Data Available**
ACUTE TOXICITY:	**LD50: Oral, rat >2,000 mg/kg**
SKIN CORROSION/IRRITATION:	**Skin Irritation by Draize (rabbit): Non-irritating**
SERIOUS EYE DAMAGE/IRRITATION:	**Eye Irritation by Kay and Calandra (rabbit): Mildly irritating**
RESPIRATORY OR SKIN SENSITIZATION:	**Skin by Local Lymph Node Assay (mouse): Negative**
GERM CELL MUTAGENICITY:	**No Data Available**
CARCINOGENICITY:	**None of the components in this material are listed by NTP, OSHA or IARC.**
REPRODUCTIVE TOXICITY:	**No Data Available**
STOT-SINGLE EXPOSURE:	**No Data Available**
STOT-REPEATED EXPOSURE:	**No Data Available**
ASPIRATION HAZARD:	**Not Applicable**

SECTION 12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	**No data**
BIOACCUMULATION:	**No data**

SECTION 13. DISPOSAL CONSIDERATIONS

Comply with Federal, State and Local regulations concerning health and environment when disposing of materials. Regulations may also apply to empty containers, liners, or rinsate. DO NOT INCINERATE unless incinerator is capable of scrubbing hydrogen fluoride and other acidic combustion products.

SECTION 14. TRANSPORT INFORMATION

UN CLASSIFICATION:	**Not applicable**
DOT HAZARD DESCRIPTION:	**Not applicable**
CANADIAN TRANSPORTATION OF DANGEROUS GOODS (TDG):	**Not applicable**

SECTION 15. REGULATORY INFORMATION

TSCA:	**All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory. The base polymer is subject to export notification under Section 12(b) of TSCA.**
EINECS 1987 LIST:	**Fluoroalkyl acrylate is registered by the listing of its constituent monomers.**
OTHER COUNTRIES:	**The fluoropolymer of this product is listed on the chemical inventories of the following countries: Japan, Korea, Taiwan, Switzerland, and China (permitted conditionally).**
Other:	**State and local regulations may have specific requirements for this product or components of this product; consult specific state and local regulatory requirements for additional information.**

SECTION 16. OTHER INFORMATION

For additional information, refer to the American Conference of Governmental Industrial Hygienists (ACGIH) documentation of TLV's (Threshold Limit Values) for individual components, Fluoropolymers Safe Handling Guide published by The Society of the Plastics Industry, and the DOT Emergency Response Guidebook.

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