

**Static
Specialists Co., Inc.**
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*"A Small, Woman
Owned Company"*

CAGE 1VPK9

Material Safety Data Sheet for:
**Axarel® 2200 Defluxer and
Degreaser**
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Material Safety Data Sheet for: ***Axarel® 2200 Defluxer and Degreaser***

I. Chemical Identification

Trade Name: Axarel® 2200 Defluxer and Degreaser

Part Numbers: MCC-AXL (aerosol can), MCC-AXLG (one gallon), MCC-AXLT (3 gallon), MCC-AXLP (5 gallons), MCC-AXLD (55 gallons), MCC-AXLW (presaturated wipes). Also marketed as "Multi-Purpose Degreaser" under part numbers #MCC-4741 (aerosol), MCC-4742 (one gallon).

Description: A blend of moderately high flashpoint aliphatic hydrocarbons designed for use in precision defluxing and degreasing. In the aerosol packaging, tetrafluoroethane is used as the propellant.

Manufacturer: Micro Care Corporation, 34 Ronzo Road, Bristol, CT 06010 USA
Phone: (860) 585-7912 Fax: (860) 585-7378
Email: info@microcare.com
CAGE Code/FSCM: OATV9

Emergency Telephone: In North America, dial CHEMTREC (800) 424-9300

II. Hazardous Ingredients

Hazardous Mixtures of Liquids, Solids or Gases, With Ingredients by Weight, Toxicity Ratings and CAS Codes:

Axarel® 2200:

Mixed Aliphatic Hydrocarbons 30-60% --- See Section V --- CAS # 90622-57-4

1-Propoxy-2-Propanol --- 30-60% --- See Section V --- CAS # 1569-01-3

Tetrafluoroethane (in aerosol only) --- 10% --- 1000 ppm --- CAS # 811-97-2

All the components of this product are listed in the TSCA inventory.

III. Physical Data

Boiling Point: 300-380° F/149-193° C

Vapor Pressure: 2 mmHg @ 68° F/20° C

Vapor Density (Air = 1.0): 5.0

Solubility in H₂O: 60 WT %

Appearance and Odor: Clear and colorless liquid with alcohol odor.

Specific Gravity (H₂O = 1): .82 @ 77° F/25° C

Percent Volatile by Volume: 100%

Evaporation Rate (Butyl Acetate = 1.0): 0.15

IV. Fire and Explosion Data

Flash Point: 111° F/ 44° C; TCC.

Flammable Limits: Lower: 2.0 Upper: 12.7

Extinguishing Media: Use dry chemical, "alcohol" foam, or CO₂; water may be ineffective, but water should be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: Keep containers cool with water spray. Keep personnel removed and upwind of spill. Wear self contained NIOSH approved breathing apparatus, also proper eye and skin protection.

Unusual Fire and Explosion Hazards: Combustible liquid. Containers generate pressure (especially aerosol) when heated causing violent bursting and dangerous propelling of container. Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point.

NFPA Rating:

Health: 1

Flammability: 2

Reactivity: 0

V. Health Hazard Data

Permissible Exposure Limits: There is no current Federal OSHA Permissible Exposure Limit or ACGIH TLV value established for this product. The Permissible Exposure Limits (PEL) for the individual components are as follows:

Effects of Over Exposure:

INHALATION: At low concentration levels: may cause mild irritation to nose and throat. At high levels: Headache, drowsiness and lassitude, loss of appetite, inability to concentrate.

Mixed Aliphatic Hydrocarbon: Skin absorption LD 50: >10,000 mg/kg in rats. These hydrocarbons are slight skin and eye irritants. Effects of a single exposure by inhalation include: lethargy, ataxia, rapid respiration, and nausea. Mild kidney tubule damage has been observed in male rats only. Other species and female rats exhibited no kidney damage. Tests in animals demonstrate no developmental toxicity.

Human Health Effects: Skin contact may cause irritation with discomfort or rash. The compound has been infrequently associated with skin sensitization in humans. Eye contact may cause irritation with discomfort, tearing or blurring of vision. Inhalation may cause nonspecific effects, such as nausea, headache or weakness. Aspiration of liquid into the lungs after ingestion may result in pulmonary edema. Ingestion may cause nonspecific effects, such as headache, nausea or weakness.

1-Propoxy-2-Propanol: Skin absorption LD50: 3,560 mg/kg in rabbits. Oral LD50: 3,250 mg/kg in rats. Repeated airborne exposure to 500-2000 ppm caused injury to the cornea in rats. Inhalation exposure of pregnant rats to 1,500 ppm resulted only in the fetus having poorly ossified hinge limb phalanges. No toxic effects in the mother or offspring was seen in rabbits at 1,500 ppm.

Skin contact of several hours may cause mild to moderate local redness and swelling. Longer contact may cause severe redness, swelling, local ulceration and necrosis. The material can be absorbed through the skin in toxic amounts.

Liquid or vapor contact may cause irritation with discomfort, tearing or blurring of vision. Inhalation may cause irritation of the upper respiratory passages with coughing, discomfort and shortness of breath. Higher or prolonged exposures may cause temporary nervous system depression with anesthetic effects, e.g., dizziness, headache, confusion, incoordination, and loss of consciousness.

Ingestion may cause severe irritation of the gastrointestinal tract with nausea, vomiting, abdominal cramps, diarrhea, dizziness, headache, weakness, drowsiness and unconsciousness. Possible kidney and liver injury may also occur. Aspiration into the lungs during ingestion or vomiting may cause lung damage.

Persons with preexisting dermatitis, asthma or fibrotoxic pulmonary disease may be more susceptible to the toxic effects of this product.

Emergency and First Aid Procedures:

Inhalation: Immediately remove to fresh air. Give artificial respiration if necessary. Call a physician.

Eyes and Skin: Eye Contact: Persons with contact lenses should wear chemical protective safety glasses when using this product. Flush with water for 15 minutes, lifting eyelids occasionally until no evidence of the chemical remains. Call a physician. Skin Contact: Wash promptly with soap and water for at least 15 minutes. Remove and wash contaminated clothing and shoes before reuse.

INGESTION: Do not induce vomiting. Immediately give two glasses of water. Contact physician immediately.

Note to Physicians: Activated charcoal slurry may be administered. To prepare activated charcoal slurry,

suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for average adult.

Carcinogenicity: The components of Axarel 2200 are not listed as carcinogens by NTP, IARC, or OSHA.

VI. Reactivity Data

Stability: Material is stable.

Conditions to avoid: Heat, sparks, flames.

Incompatibility: Avoid concentrated nitric and sulfuric acids, strong oxidizers, aldehydes, acetyl chloride, halogens, and halogen compounds.

Hazardous Decomposition Products: Burning may produce Carbon Monoxide and/or Carbon Dioxide.

Polymerization: Will not occur.

VII. Spill or Leak Procedures

Spill, Leak or Release: In the event of such an occurrence, evacuate area, absorb spilled liquid with commercial, nonflammable absorbent, i.e. sand, vermiculite. Remove unprotected personnel. Protected personnel should remove ignition sources and shut off fire sources. Provide ventilation. Shovel (spark proof) absorbent material into drums and close. Do not flush to sewer. Although the chance of a significant spill or release is unlikely in an aerosol container, follow the above guidelines in event of a spill or release.

Waste Disposal: Comply with Federal, State, and Local regulations. Consult appropriate regulatory agency prior to disposal or discharge of waste material.

VIII. Special Protection Information

Respiratory Protection: None required in ventilated work areas. Use NIOSH-approved self-contained or supplied air respirators for emergencies and in situations where air may be displaced by vapors.

Ventilation: Adequate.

Local Exhaust: For poorly ventilated work areas.

Mechanical: Adequate for storage.

Protective Gloves: For long repeated contact, Butyl.

Eye Protection: Chemical protective safety glasses.

Other protective equipment: Protective clothing for prolonged or repeated contact. Neoprene preferred.

IX. Special Precautions

Precautions for Handling and Storage: Avoid breathing vapors. Use only with adequate ventilation.
Warning: Flammable liquid, avoid lighted cigarettes, flame, sparks, welding or hot spots which may ignite liquid or vapors.

Section 313 Supplier Information

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

CAS#	CHEMICAL NAME	% BY WEIGHT
	None	

This information must be included in all MSDS sheets that are copied and distributed for this material.

Title III Hazard Classifications

Acute: Yes

Chronic: Yes

Fire: Yes

Reactivity: No

Pressure: No

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