

## Safety Data Sheet Mission Critical - MC-10 Lubricant

This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements of other countries.

## **Emergency Contact**

Chemtrec: 800-424-9300

International Chemtrec: 703-527-3887

SECTION 1. PRODUCT AND COMPANY	INFORMATION		
Product Name	Mission Critical - MC-10 Lubric	Mission Critical - MC-10 Lubricant	
Chemical Family	Fluorinated Solvent Extended Lubricating Oil		
Product Use	Firearm Lubricant		
Manufacturer	Otis Technology, 6987 Laura St	. Lyons Falls, NY 13368	
SECTION 2. HAZARDS IDENTIFICATIO	N		
GHS Classification	None		
GHS Label Elements	Hazard Pictograms Signal Word Hazard Statements	None	
Precautionary Statements	P260 Do not breathe dust, mist, or vapors. P281 Use personal protective equipment as required. P314 Get medical attention if you feel unwell. P402 + P404 Store in a dry place, in a closed container. P501 Dispose of content and container according to local and national regulations.		
SECTION 3. COMPOSITION			
CAS Number	Chemical Name	Content by Mass	
N/A	Perfluoropolyether oil	10%	
	Methoxynonofluorobutane	90%	
SECTION 4. FIRST AID MEASURES			
Eye Contact	Flush thoroughly with clear water for 15 minutes or until irritation subsides. Remove contact lenses if easy to do. If signs or symptoms persist, get medical attention.		
Skin Contact	Wash with soap and water. Remove any contaminated clothing and wash with soap and warm water. Get medical attention if symptoms occur.		
Inhalation	Move to fresh air. If you feel unwell, get medical attention.		
Injection	Consult physician immediately.		
Ingestion	Rinse mouth. Do not induce vomiting. Contact physician immediately.		
Other	Exercise ordinary measures of p	Exercise ordinary measures of personal hygiene.	
SECTION 5. FIRE-FIGHTING MEASURI	S		
Extinguishing Media	Non-combustible. Use material suitable for the surrounding fire.		
Unusual Fire or Explosion Hazards	Dense smoke can form in a fire. In a fire, decomposition of fluorinated compounds can generate hydrogen fluoride, fluorophosgene, and carbon monoxide.		
Special Fire-Fighting Methods	Avoid smoke inhalation. Water or foam may cause frothing. Cool exposed containers with water. Use air supplied rescue equipment for enclosed areas.		
SECTION 6. ACCIDENTAL RELEASE M	EASURES		
Spill or Leak Procedures	Ventilate area with fresh air. Wipe or scrape up spillage and place it in a container for disposal. Product may be absorbed with an inert material such as sand, soil, or vermiculite. Wash walking surfaces thoroughly with detergent and water to reduce slipping hazard. Keep out of sewers and water courses. Advise authorities if product has or may enter sewers or water courses.		
Waste Management and Disposal	Assure conformity with applicable regulations. Consult local, state and federal regulations applicable to your area.		

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SECTION 7. HANDLING AND STORAG	E	
Handling	Avoid contact with skin and eyes. Enforce No Smoking in areas where fluoropolymers are handled or stored. Use with adequate ventilation. Adequate ventilation should be used.	
General Hygiene Advice	Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.	
Storage	Keep container closed and in a dry, well-ventilated place. Store away from heat, acids, strong bases.	
SECTION 8. EXPOSURE CONTROLS / I	PERSONAL PROTECTION	
Control Parameters		
Exposure Guidelines	Particulates Not Otherwise Regulated (PNOR)	
OSHA PEL	15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Particulate)	
ACIGIH TLV	10 mg/m³ (Inhalable Particulate)	
Methoxynonofluorobutane (vapor)	750 ppm TWA (AIHA)	
Exposure Controls		
Ventilation	Provide local exhaust if product is heated. In situations where the product may be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust. Use general dilution ventilatio and/or local exhaust ventilation to control airborne exposures to below Exposure Limits and to control mist.	
Personal Protective Equipment		
Goggles	Safety glasses recommended.	
Gloves	Oil resistant gloves recommended, especially to avoid prolonged or repeated skin contact.	
Respirator	Not required unless mists, smoke or vapors are produced at hightemperatures or if vapor concentration exceeds exposure limits.	
Other	Use oil resistant apron, if needed.	
SECTION 9. PHYSICAL AND CHEMICA	L PROPERTIES	
Appearance	Liquid	
Color	Colorless	
Odor	None	
Odor Threshold	Not available	
Physical State	Liquid	
рН	Not applicable	
Melting Point	-135°C (solvent)	
Initial Boiling Point	61°C (solvent)	
Flash Point	NONE	
Auto-ignition Temperature	None	
Evaporation Rate	49 (BUOAC=1 - solvent)	
Lower Explosive Limit	None	
Upper Explosive Limit	None	
Vapor Pressure	202 mmHg at 25°C (solvent)	
Vapor Density	8.6 (Air = 1)	
Specific Gravity	1.5 at 25°C	
Solubility in Water	Insoluble (<12ppm - solvent)	
Partition Coefficient	3.9 (30°C – solvent)	
Decomposition Temperature	Not available	
Viscosity	Approx. 1 cP at 25°C	
SECTION 10. STABILITY AND REACTIVE		
Reactivity	Stable	
Hazardous Polymerization	Will not occur	
Chemical Incompatibilities	Avoid contact with strong oxidizing agents, strong acids and strong bases.	
Hazardous Decomposition Products	Burning may produce carbon monoxide, carbon dioxide, hydrogen fluoride, fluorophosgene, carbonyl fluoride, perfrluoroisobutylene and other fumes.	

PAGE 2 of 3

REV-180131

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SECTION 11. TOXILOGICAL INFORMATION  Perfluoropolyether oil: Acute Oral LD50 (rat) >5,000 mg/kg			
Skin	Irritation (rabbit): No skin irritation.		
Sensitization	Not expected to be a sensitizer based on component data.		
Carcinogenicity	No components classifiable as a human carcinogens.		
Aspiration Hazard	Not classified		
Methoxynonofluorbutane: Acute Oral L	D50 (rat) >5,000 mg/kg		
Inhalation	(4 hours) LC50 (rat) >1,000 mg/l		
Skin	Irritation (rabbit): No significatn irritation.		
Sensitization	(guinea pig): Non-sensitizing.		
Eye Damage/Irritation	(rabbit) No signigicant irritation.		
Respiratory Sensitization	No data/Not classified.		
Germ Cell Mutagenicity	Non mutagenic in vitro or in vivo.		
Carcinogenicity	No data/Not classified		
	Reproductive toxicity: Ingestion (rat, m/f) NOAEL 1,000 mg/kg/day, 28 days, not toxic.		
	Inhalation (rat, m/f) NOAEL 129 mg/l, 1 generation, not toxic.		
	Inhalation (rat, gestation) NOAEL 307 mg/l, some positive data exist, but the data are not sufficient for classification.		
Target Organs	Inhalation, nervous system (dog) LOAEL 913 mg/l, 10 min, some positive data exist, but the data are not sufficient for classification.		
	Inhalation, cardiac sensitization (dog) NOAEL 913 mg/l, 10 min, all data negative.		
	Inhalation, liver (rat) NOAEL 155 mg/l, 13 weeks, some positive data exist, but the data are not sufficient for classification.		
	Inhalation, bone, teeth, nails, and hair (rat) NOAEL 129 mg/l, 11 weeks, some positive data exist, but the data are not sufficient for classification.		
	Inhalation, heart, skin, endocrine system, hematopoietic system, immune system, muscles, nervous system, eyes, kidney/bladder, respiratory system (rat) NOAEL 155 mg/l 13 weeks, all data are negative.		
	Ingestion, endocrine system/liver (rat) NOAEL 1,000 mg/kg/day 28 days, some positive data exist, but the data are not sufficient for classification.		
	Ingestion, heart, hematopoietic system, immune system, nervous system, eyes, kidney/bladder, respiratory system (rat) NOAEL 1,000 mg/kg/day 28 days, all data are negative.		
SECTION 12. ECOLOGICAL INFORMATION	DN		
Perfluoropolyether Oil	Not expected to produce toxic effects.		
Methoxynonofluorobutane	Please contact The TorrLube Company for additional ecotoxicological information on this component.		
SECTION 13. DISPOSAL CONSIDERATION	DNS		
According to RCRA (40 CFR 261), this m	naterial is not hazardous waste when the as received lubricant is discarded.		
Dispose of in accordance with all local, s	state, provincial, and federal regulations.		
SECTION 14. TRANSPORT INFORMATIO	DN .		
DOT (49 CFR 171.101)	Not hazardous		
IMDG (Ocean)	Not hazardous		
IATA (Air)	Not hazardous		
SECTION 15. REGULATORY INFORMATI	ON		
Contents of this MSDS comply with OSF	IA HAZARD Communication Standard 29 CFR 1910.1200.		
EPA SARA Title III Chemical Listing	This product contains no extremely hazardous or hazardous substances.		
CERCLA Hazardous Substances	None		
TSCA Status	All chemical substances listed are included or exempt from listing on TSCA		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

PAGE 3 of 3

REV-180131

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