



# Safety Data Sheet

## Mission Critical - MC-10 Cleaner

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 Cleaner	
Chemical Family	Fluorinated Solvent	
Manufacturer/Supplier	Otis Technology 6987 Laura St Lyons Falls, NY 13368	
Product Information	1.800.OTISGUN	
SECTION 2. HAZARDS IDENTIFICATION		
GHS Classification	None	
<b>GHS Label Elements:</b>		
Hazard Pictograms	None	
Signal Word	None	
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
297730-93-9	3 ethoxy, 1,1,1,2,3,4,4,5,5,6,6,6 dodecafluoro	>99%
	2 trifluoromethyl hexane	
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 personal hygiene.	
SECTION 5. FIRE-FIGHTING MEASURES		
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 Measures	Avoid smoke inhalation. Water or foam may cause frothing. Cool exposed containers with water. Use air supplied rescue equipment for enclosed areas.	

<b>SECTION 6. ACCIDENTAL RELEASE MEASURES</b>	
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.
<b>SECTION 7. HANDLING AND STORAGE</b>	
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.
<b>SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
<b>Control Parameters</b>	
Exposure Guidelines	Fluorinated solvent (297730-93-0)
	Manufacturer determined TWA: 100 ppm
<b>Exposure Controls</b>	
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 ventilation and/or local exhaust ventilation to control airborne exposures to below Exposure Limits and to control mist.
<b>Personal Protective Equipment</b>	
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 high temperatures or if vapor concentration exceeds exposure limits.
Other	Use oil resistant apron, if needed.
<b>SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
Appearance	Liquid
Color	Colorless
Odor	None
Odor Threshold	Not available.
Physical State	Liquid
pH	Not applicable.
Melting Point	-100°C
Initial Boiling Point	129°C
Flash Point	None
Auto-Ignition Temperature	None
Evaporation Rate	No data available.
Lower Explosive Limit	None
Upper Explosive Limit	None
Vapor Pressure	1mmHg at 20°C
Vapor Density	14.3 (Air = 1)
Specific Gravity	1.63 at 20°C
Solubility in Water	<0.004 ppm - solvent
Partition Coefficient	5.75
Auto-Ignition Temperature	330°C
Decomposition Temperature	Not available.
Viscosity	0.8 cSt at 25°C

<b>SECTION 10. STABILITY AND REACTIVITY</b>	
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 hydrogen fluoride, irritating/toxic vapors or gases, and other fumes.
Other	Avoid contamination of cigarettes or other tobacco products.
<b>SECTION 11. TOXICOLOGICAL INFORMATION</b>	
<b>3-ethoxy 1,1,1,2,3,4,4,5,5,6,6,6 dodecafluoro 2-trifluoromethyl hexane:</b>	
	Acute Oral LD50 (rat) >2,000 mg/kg
	Inhalation (4 hours) LC50 (rat) >50 mg/l
	Acute Dermal LD50 (rat) >2,000 mg/kg
	Skin: Irritation (rabbit): No significant irritation
	Sensitization (guinea pig): Non-sensitizing
	Eye damage/irritation (rabbit): No significant irritation
	Respiratory sensitization: No data/not classified
	Germ cell Mutagenicity: Non mutagenic in vitro
	Carcinogenicity: No data/not classified
	Reproductive toxicity: Ingestion (rat, m/f) NOAEL 1,000 mg/kg/day, pre-mating & during gestation
	Inhalation (rat, m) NOAEL 169 mg/l, 5 days, not toxic
<b>Target Organs</b>	
	Inhalation, respiratory irritation (rat) LOAEL 207 mg/l, 5 days, all data are negative.
	Inhalation, liver kidney and/or bladder (rat) NOAEL 169 mg/l, 5 days, some positive data exist, but the data are not sufficient for classification.
	Ingestion, liver (rat) NOAEL 1,000 mg/kg/day 28 days, some positive data exist, but the data are not sufficient for classification.
	Ingestion, heart, endocrine system, hematopoietic system, immune system, nervous system, eyes, kidney/bladder, respiratory system (rat) NOAEL 1,000 mg/kg/day 28 days, all data are negative.
<b>SECTION 12. ECOLOGICAL INFORMATION</b>	
<b>3-ethoxy 1,1,1,2,3,4,4,5,5,6,6,6 dodecafluoro 2-trifluoromethyl hexane:</b>	
	Please contact The TorrLube Company for additional ecotoxicological information on this component.
<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>	
<b>According to RCRA (40 CFR 261), this material is not hazardous waste when the as received lubricant is discarded.</b>	
Waste Disposal Methods	Dispose of in accordance with all local, state, provincial, and federal regulations.
<b>SECTION 14. TRANSPORT INFORMATION</b>	
DOT (49 CFR 171.101)	Not hazardous
IMDG (ocean)	Not hazardous
IATA (air)	Not hazardous
<b>SECTION 15. REGULATORY INFORMATION</b>	
<b>Contents of this MSDS comply with OSHA HAZARD Communication Standard 29 CFR 1910.1200.</b>	
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.
<b>SECTION 16. OTHER INFORMATION</b>	
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.	