SAFETY DATA SHEET

Issue Date **12-**2-2014 **Revision Date** 8-5-2024 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name **MC-7 Extra Strength Bore Cleaner**

Other Means of Identification
SDS # **9532**

Product Code **SHF-MC7XT**

Recommended Use of the Chemical and Restrictions on Use **Recommended Use**

SOLVENT CLEANER

Details of the Supplier of the Safety Data Sheet
Supplier Address
Otis Technology
6987 Laura Street
Lyons Falls, NY 13367 United States

Emergency Telephone Number
Company Phone Number **1-800-674-7847**
Emergency Telephone Chemtrec: 1-800-424-9300 International Chemtrec: 703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids: Category 3
Serious Eye irritation: Category 1
Skin corrosion/irritation: Category 1
Germ Cell Mutagenicity: Category 1B
Carcinogenicity: Category 1
Specific target organ toxicity – single exposure: Category 3
Aspiration Toxicity: Category 1

Signal Word
DANGER

Symbols

Emergency Overview:
Physical State: Liquid
Color: Clear amber
Odor: Ammonia Scent

OSHA/HCS status: **This material is considered hazardous by the OSHA Hazard Communication Standard(29 CFR 1910.1200).**

Hazard Statements

H226: FLAMMABLE LIQUID AND VAPOUR.
H319: CAUSES SERIOUS EYE DAMAGE.
H315: CAUSES SEVERE SKIN BURNS.
H340: MAY CAUSE GENETIC DEFECTS.
H351: SUSPECTED OF CAUSING CANCER.
H335: MAY CAUSE RESPIRATORY IRRITATION.
H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

Precautionary Statements-Prevention

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P260: Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements – Response

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P362: Wash contaminated clothing before reuse.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331: Do not induce vomiting.
P330: Rinse mouth.
P370 + P378: In case of fire: Use dry chemical, CO2, or Halon for extinction.
P308+P313: If exposed or concerned: Get medical advice/attention.

Precautionary Statements – Storage

P403 + P233: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405: Store locked up.

Precautionary Statements – Disposal

P501: Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
AROMATIC HYDROCARBON	64742-95-6	35-40
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	5-10
NAPHTHALENE	91-20-3	1-5
METHYL AMYL ALCOHOL	108-11-2	1-5
MONOETHANOLAMINE	141-43-5	5-10

The balance of the chemicals in this mixture are either considered nonhazardous or are below the listing limits for hazardous substances. These chemicals are considered trade secrets. The specific identity of these chemicals is available to health professionals.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact — **IF IN EYES:** Rinse cautiously with water for several minutes. **C**heck for and remove any contact lenses. Immediately flush eyes thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Get medical attention immediately.

Skin Contact — **IF ON SKIN:** Remove/Take off immediately all contaminated clothing. Rinse skin with Water or shower. Wash contaminated clothing before reuse. Seek medical attention if irritation occurs.

Inhalation — **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.

Ingestion — **IF SWALLOWED:** Clean mouth with water. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms — Direct contact with eyes and skin causes serious damage. May cause irritation to the mucous membranes and upper respiratory tract. Choking, coughing and headache may occur. May cause irritation to the digestive tract.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians — Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Dry Chemical CO2, Halon.

Unsuitable Extinguishing Media

Do not use water.

Specific Hazards Arising from the Chemical

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Methods and Material for Containment and Cleaning Up

Methods for Containment For small spills, absorb on poly-pads or other suitable non-reactive absorbent material. Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Eliminate all sources of ignition. Use non-sparking hand tools and explosion-proof electrical equipment. Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Keep away from heat, sparks, flame and other sources of ignition. All equipment used when handling the product must be grounded.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Incompatible Materials Strong oxidizing agents, sparks or open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACHIH TLV	OSHA PEL	NIOSH IDLH
Aromatic Hydrocarbon 64742-95-6	Data Not Available	Data Not Available	Data Not Available
Ethylene Glycol Monobutyl Ether 111-76-2	20 ppm TWA	50 ppm, 24 mg/m3 TWA OSHA Z-1 240 mg/m3 TWA OSHA P0	5 ppm, 24 mg.m3 TWA
Naphthalene 91-20-3	Data Not Available	Data Not Available	Data Not Available
Methyl Amyl Alcohol 108-11-2	25 ppm TWA 40 ppm STEL	25 ppm, 100 mg/m3 TWA 40 ppm, 165 mg/m3 STEL	40ppm, 165 mg/m3 ST 25 ppm, 100 mg/m3 TWA
Monoethanolamine 141-43-5	STEL: 6ppm 15 min. TWA: 3ppm 8h	TWA: 3ppm 8h	Data Not Available

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or other biological monitoring may be require to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Appropriate Engineering Controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and the using the bathroom and at the end of the working periods.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Avoid contact with eyes. Wear safety eyewear.
Skin and Body Protection	Wear suitable protective clothing. Use impervious gloves.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Ammonia scent
Appearance	Clear Liquid	Odor Threshold	Not determined
Color	Amber		

Property	Values
pH	11
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	188 Deg F
Flash Point	118 (tcp)
Evaporation Rate	(H2O = 1) >1
Flammability (Solid, Gas)	n/a-liquid
Upper Flammability Limits	UEL = 4
Lower Flammability Limit	LEL = 4
Vapor Pressure	20@68f
Vapor Density	Not determined
Specific Gravity	.92
Water Solubility	Soluble in water
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Auto ignition Temperature	Not determined
Decomposition Temperature Kinematic	Not determined
Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties Oxidizing	Heated drums can explode
Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization	Hazardous polymerization does not occur.

Conditions to Avoid
Keep out of reach of children. Avoid all possible sources of ignition (spark or flame).

Incompatible Materials
Strong oxidizers, sparks or open flame.

Hazardous Decomposition Products
Will not occur. In a fire: Carbon Monoxide, Carbon Dioxide and Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes serious eye damage. **Skin Contact** Causes severe skin burns.

Inhalation May be harmful if inhaled. **Ingestion** May be fatal if swallowed and enters airways.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aromatic Hydrocarbon 64742-95-6	>3,000 mg/kg	>3,160 mg/kg	Data not available
Ethylene Glycol Monobutyl Ether 111-76-2	1,519 mg/kg (mouse)	>2,000 mg/kg	700, ppm 7 h
Naphthalene 91-20-3	>5,000 mg/kg (rat)	Data not available	Data not available
Methyl Amyl Alcohol 108-11-2	2,590 mg/kg	2,870 mg/kg	> 16,000
Monoethanolamine 141-43-5	1,089 mg/kg (rat)	2,504 mg/kg	1.3 mg/l

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity This product contains carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Acute Toxicity Oral ATE: 5,555

12. ECOLOGICAL INFORMATION

Ecotoxicity

Material expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol Monobutyl Ether 111-76-2	EC50 (Pseudokirchneriella subcapitata (green	LC50 (Oncorhynchus mykiss (rainbow	Data not available	EC50 (Daphnia magna (Water flea)): 1,800 mg/l Exposure time: 48h

Methyl Amyl Alcohol 108-11-2	EC50 (pseudokirchneriella subcapitata (green algae)): 147 mg/l	LC50 (Pimephales promelas (fathead minnow)):>92.4 mg/l	Data not available	EC50 (daphnia magna (Water flea)): 337 mg/l
Monoethanolamine 141-43-5	EC50: 48h static Daphnia 65mg/l	LC50: Fish 96h 349 mg/l	EC10: Bacteria 30 min >1000 mg/l	Data not available

Persistence and Degradability

Not determined

Bioaccumulation

Not determined.

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT **UN1993, FLAMMABLE LIQUID, N.O.S., (Aromatic Hydrocarbon, Methyl Amyl Alcohol) 3, PGIII**

IATA Not available.

IMDG Not available.

TDG Not available.

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%

Methyl Isobutyl Ketone	**108-10-1**	**1**
Ethylene Glycol Butyl Ether	**111-76-2**	**5-10**
Pseudocumene (1,2,4-Trimethylbenzene)	**95-63-6**	**<15**
Xylenes	**1330-20-7**	**<1**
Cumene	**98-82-8**	**<.04**

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Minnesota
Aromatic Hydrocarbon	X		X	
Ethylene Glycol Monobutyl Ether	90-100%	90-100%	90-100%	
Naphthalene	X	X	X	
Methyl Amyl Alcohol	X	X	X	
Monoethanolamine			X	
Cumene	X		X	X
Xylenes	X		X	X
Pseudocumene (1,2,4-rimethylbenzene)	X		X	X

Also included in Illinois and Rhode Island State Right-to-Know: Naphthalene, Cumene, Xylenes, Pseudocumene (1,2,4- Trimethylbenzene).

California Prop 65: Warning! This product contains chemicals known to the State of California to cause cancer and reproductive toxicity.

108-10-1 Methyl Isobutyl Ketone, Naphthalene 91-20-3, Cumene 98-82-8.

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
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Issue Date **December-** 02-2014
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Revision Note **GHS update**

Disclaimer

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 a 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.

End of Safety Data Sheet