



Otis Technology Biobased CLP

Safety Data Sheet

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

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Version: 3.0

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Trade name	Otis Technology Biobased CLP
Specification:	MIL-PRF-63460F Type B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems
Qualification Number (Date):	AR-22-02 (22 February 2022)
Military Symbol:	CLP
NATO Code:	S-758
National Stock Number(s) (NSN):	9150-01-663-4635 (0.50 fl oz. Bottle) 9150-01-663-3879 (4 fl oz. Bottle) 9150-01-663-4643 (1 Pint Bottle with Trigger) 9150-01-663-4623 (1 Liter Bottle with Trigger) 9150-01-663-4610 (1 Gallon Plastic Bottle)

1.2. Recommended use and restrictions on use

Use of the substance/mixture:	This product is for use in cleaning, lubricating and short-term preservation of small and large caliber military weapons, operating in the temperature range of -51°C to + 71°C (-60°F to +160°F). (See MIL-PRF-63460F paragraph 6.1.)
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1.3. Supplier

Otis Products, Inc.
CAGE Code 01VS3
6987 Laura Street
Lyons Falls, NY 13368
United States
T 1-800-648-7486

1.4. Emergency telephone number

Emergency number:	For Chemical Emergency Call CHEMTREC 24hr/day 7days/week Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)
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SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Calcium Sulfonate Type 1* (Additive)	CAS-No.: Trade Secret	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Calcium Sulfonate Type 2* (Additive)	CAS-No.: Trade Secret	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Proprietary Component A* (Additive)	CAS-No.: Trade Secret	Trade Secret	Skin Sens. 1B, H317
Proprietary Component B* (Additive)	CAS-No.: Trade Secret	Trade Secret	Skin Sens. 1B, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Proprietary Component C* (Additive)	CAS-No.: Trade Secret	Trade Secret	Skin Sens. 1B, H317

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact:	Wash skin with plenty of water.
First-aid measures after eye contact:	Rinse eyes with water as a precaution.
First-aid measures after ingestion:	Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire:	Toxic fumes may be released.
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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures:	Ventilate spillage area.
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Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2. For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Take up liquid spill into absorbent material.

Other information:

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Environmental exposure controls:

Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid.
Color:	light brown
Odor:	Characteristic odour
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	≤ -69 (Pour point)
Boiling point:	No data available
Flash point:	202 °C
Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	Not applicable.
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	15.2 mm ² /s at 40°C (104°F)
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified
Skin corrosion/irritation:	Not classified
Carcinogenicity:	Not classified
Aspiration hazard:	Not classified
Viscosity, kinematic:	15.2 mm ² /s at 40°C (104°F)
STOT-single exposure:	Not classified.
STOT-repeated exposure:	Not classified
Reproductive toxicity:	Not classified

Calcium Sulfonate Type 1	
LD50 oral rat:	> 2500 mg/kg
LD50 dermal rabbit:	10000 mg/kg
LC50 Inhalation - Rat:	9000 mg/l (1 Hour)
Proprietary Componet B	
LD50 oral rat:	11.3 g/kg
Calcium Sulfonate Type 2	
LD50 oral rat:	> 2500 mg/kg
LD50 dermal rat:	> 10000 mg/kg
LC50 Inhalation - Rat:	> 9 mg/l
Proprietary Componet C	
LD50 oral rat:	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rat:	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Calcium Sulfonate Type 1	
Corrosivity	Negative
Skin corrosion/irritation	Irritating to skin
Proprietary Componet C	
Skin corrosion/irritation, In vitro, Human Skin Model (HSM) test	Not irritating to skin
Serious eye damage/irritation:	Not classified
Calcium Sulfonate Type 1	
Serious eye damage/irritation	Irritating

Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Proprietary Component C	
Eye irritation, In vivo, rabbit	Not irritating to eyes ((OECD 405 method))
Respiratory or skin sensitization:	Not classified.
Calcium Sulfonate Type 2	
Skin sensitization	Not expected to be a skin sensitizer ((OECD 429 method))
Proprietary Component C	
Skin sensitization, In vivo, Guinea pig	Skin sensitization, category 1B ((OECD 406 method))
Germ cell mutagenicity:	Not classified
Calcium Sulfonate Type 2	
Additional information	:: ::
Proprietary Component C	
Germ cell mutagenicity, In vitro, Chinese hamster lung fibroblasts	Mutagenicity tests are negative
Calcium Sulfonate Type 2	
IARC group:	Not classified
National Toxicity Program (NTP) Status:	Not classified
Proprietary Component B	
NOAEL (animal/male, F0/P):	1000 mg/kg
NOAEL (animal/male, F1):	1000 mg/kg
Calcium Sulfonate Type 2	
NOAEL (animal/male, F0/P):	893 mg/kg
Proprietary Component C	
NOAEL (animal/male, F0/P):	100 mg/kg body weight (OECD 422 method)
NOAEL (animal/female, F0/P):	100 mg/kg (OECD 422 method)
NOAEL (animal/male, F1):	100 – 1000 mg/kg body weight (OECD 422 method)
Calcium Sulfonate Type 2	
NOAEL (oral,rat):	95 mg/kg body weight OECD 422 (solid)
Proprietary Component C	
NOAEL (oral,rat,90 days):	300 mg/kg bodyweight/day (OECD 408 method)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general:

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Proprietary Component B	
LC50 - Fish [1]:	5.5 mg/l 96 hours
EC50 - Crustacea [2]:	0.315 mg/l 48 hours
ErC50 algae:	0.58 mg/l 72 hours

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MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Proprietary Component B	
NOEC (chronic):	> 1000 mg/l 3 hours
Calcium Sulfonate Type 2	
EC50 - Crustacea [1]:	2.2 – 10 mg/l 21 days (Daphnia)
NOEC chronic crustacea:	10 mg/l 21 days OECD 211
Proprietary Component C	
LC50 - Fish [1]:	> 10 mg/l Test organisms (species): Leuciscus idus

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Proprietary Component B	
Partition coefficient n-octanol/water (Log Kow):	> 2.47
Calcium Sulfonate Type 2	
BCF - Fish [1]:	3.16 mg/l (QSAR)
Partition coefficient n-octanol/water (Log Pow):	> 6.6

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT):	Not applicable
Proper Shipping Name (TDG):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT): Not applicable

TDG

Transport hazard class(es) (TDG): Not applicable

Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

IMDG

Transport hazard class(es) (IMDG): Not applicable

IATA

Transport hazard class(es) (IATA): Not applicable

14.4. Packing group

Packing group (DOT): Not applicable

Packing group (TDG): Not applicable

Packing group (IMDG): Not applicable

Packing group (IATA): Not applicable

14.5. Environmental hazards

Other information: No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Calcium Sulfonate Type 1		Not present	-	
Proprietary Component A		Not present	-	
Proprietary Component B		Not present	-	
Calcium Sulfonate Type 2		Present	Active	
Proprietary Component C		Present	Active	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Calcium Sulfonate Type 2

Listed on the Canadian DSL (Domestic Substances List)

Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Proprietary Component C
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Proprietary Component C
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/25/2022

Full text of H-phrases	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant

Otis Technology Biobased CLP

MIL-PRF-63460F TYPE B Biobased Cleaner, Lubricant, and Preservative for Weapons and Weapons Systems

Safety Data Sheet

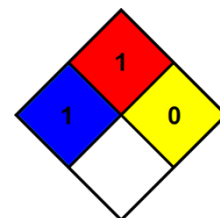
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations and acronyms	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

NFPA health hazard 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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