

633F7 - Special Grease

Material number 633F 7

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1. Product and company identification**Product identifier**

Trade name: 633F7 - Special Grease

Relevant identified uses of the substance or mixture and uses advised againstGeneral use: lubricant for: Refined steel, steel and Plastic
For orthopedic procedures**Details of the supplier of the safety data sheet**Company name: Otto Bock Health Care
Street/POB-No.: 3820 W. Great Lakes Drive
Postal Code, city: Salt Lake City, UT 84120
USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Dept. responsible for information:

Quality Department,
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),
Email: USRegulatory@ottobock.comAdditional information: Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany**Emergency phone number****CHEMTREC, Telephone: +1 (800) 424-9300****2. Hazards identification****Emergency overview**Appearance: Form: pasty
Color: white
Odor: characteristic
Classification: This material is classified as not hazardous.**Regulatory status**

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Preparation of metallic soap in mineral oil with additives

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	< 1 %	Skin Irritation - Category 2. Eye Damage - Category 1. Aquatic toxicity - chronic - Category 2.

4. First aid measures

Following skin contact: Thoroughly wash skin with soap and water.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Seek medical attention.

Most important symptoms/effects, acute and delayed

After contact with skin: May cause irritations.
After eye contact: May cause irritations.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:
> 392 °F (ISO 2592)

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:
Dry chemical powder, foam, water spray jet, Carbon dioxide.

Extinguishing media which must not be used for safety reasons:
Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: sulphur oxides, phosphorus oxides, Zinc oxide, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:
Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:
Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up: Take up mechanically, placing in appropriate containers for disposal.

Additional information: Special danger of slipping by leaking/spilling product.

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7. Handling and storage**Handling**

Advices on safe handling: Handle in accordance with good industrial hygiene and safety practice.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Specific use(s) lubricant for: Refined steel, steel and Plastic
For orthopedic procedures

Storage

Requirements for storerooms and containers:

Keep only in the original container.

Store at room temperature.

Hints on joint storage: Do not store together with strong oxidizing agents.

8. Exposure controls / personal protection**Engineering controls**

Provide adequate ventilation, and local exhaust as needed.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection Wear suitable protective clothing.
protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: nitrile rubber - Breakthrough time 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

General hygiene considerations:

Wash hands before breaks and after work.

Change contaminated clothing.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance:	Form: pasty Color: white
Odor:	characteristic
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	> 392 °F (ISO 2592)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available

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Vapor density:	No data available
Density:	at 68 °F: 0.95 g/cm ³
Water solubility:	at 68 °F: insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No data available
Explosive properties:	not explosive
Drop point/drop range:	approx. 374 °F (IP 396)

10. Stability and reactivity

Reactivity:	refer to section 10.3
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions	No dangerous reactions are known.
Conditions to avoid:	No data available
Incompatible materials:	strong oxidizing agents, strong acids.
Hazardous decomposition products:	In case of fire may be liberated: sulphur oxides, phosphorus oxides, Zinc oxide, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available

11. Toxicological information

Toxicological tests

Toxicological effects:	Acute toxicity (oral): Lack of data.
	Acute toxicity (dermal): Lack of data.
	Acute toxicity (inhalative): Lack of data.
	Skin corrosion/irritation: Lack of data.
	Serious eye damage/irritation: Lack of data.
	Sensitisation to the respiratory tract: Lack of data.
	Skin sensitisation: Lack of data.
	Germ cell mutagenicity/Genotoxicity: Lack of data.
	Carcinogenicity: Lack of data.
	Reproductive toxicity: Lack of data.
	Effects on or via lactation: Lack of data.
	Specific target organ toxicity (single exposure): Lack of data.
	Specific target organ toxicity (repeated exposure): Lack of data.
	Aspiration hazard: Lack of data.

Symptoms

After contact with skin: May cause irritations.
 After eye contact: May cause irritations.

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12. Ecological information**Ecotoxicity**

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: Product is biodegradable with difficulty.

Additional ecological informationGeneral information: Elimination from sewage water with oil and greae traps.
Do not allow to penetrate into soil, waterbodies or drains.**13. Disposal considerations****Product**Recommendation: Incinerate according to applicable local, state and federal regulations.
Do not dispose of with household waste.**Contaminated packaging**

Recommendation: Dispose of waste according to applicable legislation.

14. Transport information**USA: Department of Transportation (DOT)**

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information**National regulations - Great Britain**

Hazchem-Code: -

16. Other information

Hazard rating systems:



NFPA Hazard Rating:
Health: 0 (Minimal)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)
HMIS Version III Rating:
Health: 0 (Minimal)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: B

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
B	

Reason of change: Changes in section 1.3: Corporate headquarters

Date of first version: 1/19/2010

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.