

1. Product and company identification

Product identifier

Trade name: 633G6 - Otto Bock Special Lubricant

Relevant identified uses of the substance or mixture and uses advised against

General use: Lubricating grease

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

Department responsible for information:

Quality Department,

Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),

Email: USRegulatory@ottobock.com

Additional information:

Corporate headquarters:

Ottobock SE & Co. KGaA

Max-Näder-Straße 15

Duderstadt

Germany

Emergency phone number

CHEMTREC, Telephone: +1 (800) 424-9300

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid

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).

Hazards not otherwise classified

Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Lubricating grease, synthetic oils
 Contains: Thickener/Thickening agent and additives
 The product does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

4. First aid measures

General information: Take off contaminated clothing and wash it before reuse.
 Do not put any product-impregnated cleaning rags into your trouser pockets.
 In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.
 Following skin contact: In case of skin reactions, consult a physician.
 After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
 After swallowing: Do NOT induce vomiting. Seek medical attention.

Most important symptoms/effects, acute and delayed

High concentrations may cause headaches, dizziness, nausea, change of behaviour, faintness, numbness and drowsiness.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:
 > 392 °F
 Auto-ignition temperature: No data available
 Suitable extinguishing media:
 Water spray jet, alcohol resistant foam, dry chemical powder, carbon dioxide.
 Extinguishing media which must not be used for safety reasons:
 Full water jet

Specific hazards arising from the chemical

Combustible. May form dangerous gases and vapors in case of fire.
 Furthermore, there may develop: carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:
 Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: You have to dispose of contaminated extinguishing water according to the regulations of the authorities. Use fine water spray to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions: Wear appropriate protective equipment. Avoid contact with the substance.
 Provide adequate ventilation. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

Methods for clean-up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Additional information:

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling:

Avoid oil mist formation. Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin and eyes.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Precautions against fire and explosion:

Product is combustible. Keep away from sources of ignition - No smoking.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry. Store only in original container. Do not allow the product to enter the ground.

Protect from heat and direct sunlight.

Store at room temperature. Protect from frost.

Hints on joint storage:

Do not store together with: spontaneously combustible substances

Keep away from combustible materials.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	5 mg/m ³ (Oil mist mineral, inhalable fraction)
USA: IDLH: TWA	2,500 mg/m ³
USA: NIOSH: STEL	10 mg/m ³ (Oil mist mineral)
USA: NIOSH: TWA	5 mg/m ³ (Oil mist mineral)
USA: OSHA: TWA	5 mg/m ³ (Oil mist mineral)

Engineering controls

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

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 - Layer thickness: ≥ 0.38 mm

Breakthrough time: ≥ 480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:

With correct and proper storage and handling, no special precautionary measures required. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

General hygiene considerations:

Take off contaminated clothing and wash it before reuse. Do not breathe vapor/aerosol.

When using do not eat, drink or smoke.

Avoid contact with skin and eyes.

Wash hands before breaks and after work. Protect skin by using skin protective cream.

Eye wash facility must be provided.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: pasty Color: white
Odor:	characteristic
Odor threshold:	No data available
pH:	not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 536 °F
Flash point/flash point range:	> 392 °F
Evaporation rate:	No data available
Flammability:	combustible
Explosion limits:	No data available
Vapor pressure:	at 68 °F: ≤ 0.49 Pa
Vapor density:	No data available
Density:	at 77 °F: $0.87 - 0.88$ g/cm ³
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Ignition temperature:	> 608 °F
Drop point/drop range:	> 464 °F

10. Stability and reactivity

Reactivity:

Refer to subsection "Possibility of hazardous reactions".

Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Take precautionary measures against static discharge.
Incompatible materials:	Strong oxidizing agents, strong acids, strong bases
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available

11. Toxicological information

Toxicological tests

Toxicological effects:	<p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Based on available data, the classification criteria are not met.</p> <p>Serious eye damage/irritation: Based on available data, the classification criteria are not met.</p> <p>Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.</p> <p>Skin sensitisation: Based on available data, the classification criteria are not met.</p> <p>Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity: Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Based on available data, the classification criteria are not met.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.</p> <p>Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.</p> <p>Aspiration hazard: Based on available data, the classification criteria are not met.</p>
------------------------	---

Symptoms

After contact with skin:
Frequently or prolonged contact with skin may cause dermal irritation.
After eye contact: Liquid splashes can lead to irritations of the eyes.

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

Environmental hazards

Marine pollutant: no

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

No data available

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 - U.S. Federal Regulations

No data available

National regulations - U.S. State Regulations

No data available

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

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
 AS/NZS: Australian Standards/New Zealand Standards
 CAS: Chemical Abstracts Service
 CFR: Code of Federal Regulations
 CLP: Classification, Labelling and Packaging
 DMEL: Derived minimal effect level
 DNEL: Derived no-effect level
 EC: European Community
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
 EN: European Standard
 EQ: Excepted quantities
 IATA: International Air Transport Association
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IMDG Code: International Maritime Dangerous Goods Code
 IMO: International Maritime Organization
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 MFSU: Manufacture, formulation, supply and use
 OEL: Occupational Exposure Limit Value
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
 TLV: Threshold Limit Value
 TRGS: Technical Rules for Hazardous Substances
 vPvB: Very persistent and very bioaccumulative
 WEL: Workplace Exposure Limit

Reason of change: General revision

Date of first version: 12/10/2015

Department issuing data sheet

Contact person: see section 1: Department 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.