

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 3/22/2018 Version: 2 Language: en-US Date of print: 5/24/2018

Special Grease

Material number 633F38

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1. Product and company identification

Product identifier

Trade name: Special Grease

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

General use: lubricant

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.com

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

Form: pasty Color: green characteristic

Classification: Aquatic toxicity - chronic - Category 3;

Harmful to aquatic life with long lasting effects.

Precautionary statements:

Odor:

Avoid release to the environment.

Dispose of contents/container to hazardous or special waste collection point.

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

Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information



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3. Composition / Information on ingredients

Chemical characterization: lubricant on the basis of mineral oil.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 128-37-0	3,5-Di-tert-butyl-4- hydroxytoluene	0.25 - 1 %	Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 12001-85-3	Naphthenic acids, zinc salts	0.25 - 1 %	Skin Irritation - Category 2. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.

4. First aid measures

General information: Take off contaminated clothing and wash it before reuse.

In case of inhalation: Provide fresh air. Put victim at rest and keep warm. Seek medical treatment in case of

troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. 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. In case of

troubles or persistent symptoms, consult an opthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an

unconscious person. Seek medical treatment in case of troubles.

Most important symptoms/effects, acute and delayed

May cause skin and eye irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, dry chemical powder, carbon dioxide

In case of large fires: Alcohol resistant foam, Water spray jet

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Move undamaged containers from immediate hazard area if it can be done safely. Do not

allow fire water to penetrate into surface or ground water.



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6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid contact with the substance.

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

reuse. Keep unprotected people away.

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.

Stop leak if safe to do so.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with the

substance.

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

reuse.

When using do not eat, drink or smoke.

Storage

Requirements for storerooms and containers:

Keep container tightly closed and dry. Keep in a cool place.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing

agents, strong acids or strong bases.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene	USA: ACGIH: TWA USA: NIOSH: TWA	2 mg/m³ 10 mg/m³

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 Recommendation: Tightly sealed goggles according to OSHA Standard - 29 CFR:

1910.133 or ANSI Z87.1-2010 (When decanting)

Skin protection Wear suitable protective clothing.

In case of prolonged or frequently repeated skin contact: Protective gloves according to

OSHA Standard - 29 CFR: 1910.138

Glove material: Nitrile rubber

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

Respiratory protection: 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.

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General hygiene considerations:

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Take off contaminated clothing and wash it before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

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

> Form: pasty Color: green characteristic

Odor Odor threshold: No data available

pH value: not applicable No data available Melting point/freezing point: Initial boiling point and boiling range: not applicable Flash point/flash point range: not applicable Evaporation rate: No data available No data available Flammability: Explosion limits: No data available Vapor pressure: No data available No data available Vapor density: Density: at 59 °F: 0.9 g/cm3

Water solubility: insoluble

No data available Partition coefficient: n-octanol/water: Auto-ignition temperature: No data available Thermal decomposition: No data available

Additional information: NLGI-number = 2

10. Stability and reactivity

refer to section 10.3 Reactivity:

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: Protect from light and heat. Protect from moisture contamination.

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



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11. Toxicological information

Toxicological tests

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not

met

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Specific symptoms in animal studies, Guinea pig: not sensitising (OECD 406, read across)

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification

criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the

classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information:

Information about 3,5-Di-tert-butyl-4-hydroxytoluene: LD50 Rat, oral: 2930 mg/kg (OECD 401, read across) LD50 Rat, dermal: > 5000 mg/kg (OECD 402, read across)

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Information about 3,5-Di-tert-butyl-4-hydroxytoluene:

Fish toxicity: LC50: > 0.57 mg/L/96h (OECD 203, read across)

Daphnia toxicity: EC50: 0.17 mg/L/48h Algae toxicity: EC50: > 0.42 mg/L/72h

Mobility in soil

No data available

Persistence and degradability

Further details: Information about 3,5-Di-tert-butyl-4-hydroxytoluene

Biodegradation: 30 % (OECD 302C read acros)

Additional ecological information

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



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13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

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

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant:

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

Product: TSCA Inventory: not listed

3,5-Di-tert-butyl-4-hydroxytoluene: Carcinogen Status:

IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:
Occupational Health Guideline:

0246

National regulations - Great Britain

Hazchem-Code:



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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

Changes in section 1.3: Corporate headquarters Reason of change:

8/18/2016 Date of first version:

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.

