

1 Identification

Product identifier

Trade name: 633F16 - Sliding Paste, White

Recommended use and restrictions on use

General use: Lubricant
Reserved for industrial and professional use.

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

Postal code, city: Burlington, ON L7L 5N5, CA
Canada

WWW: www.ottobock.ca

Email: info.canada@ottobock.com

Telephone: (800) 665-3327

Telefax: (800) 463-3659

Department responsible for information:

Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

Additional information:

Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency telephone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2 Hazard identification

Classification

Reproductive toxicity 2 Suspected of damaging fertility.

Aquatic toxicity - acute 2 Toxic to aquatic life.

Aquatic toxicity - chronic 2 Toxic to aquatic life with long lasting effects.

Information elements

Symbols:



Signal word:

Warning

Hazard statements:

Suspected of damaging fertility.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Precautionary statements:

Obtain special instructions before use.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.

IF exposed or concerned: Get medical advice/attention.
Collect spillage.

Store locked up.

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

Other hazards known to the supplier with respect to the product

Special danger of slipping by leaking/spilling product.

3 Composition/Information on ingredients

Mixture

Chemical name: Base oil

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 1305-62-0	Calcium hydroxide	20 - 50 %	Skin Irritation 2. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 7446-26-6	Dizinc pyrophosphate	2.5 - 5 %	Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 1 (M-factor = 1).
CAS 68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	< 1 %	Reproductive toxicity 2. Aquatic toxicity - chronic 3.
CAS 1314-13-2	Zinc oxide	< 0.25 %	Aquatic toxicity - acute 1 (M-factor = 1). Aquatic toxicity - chronic 1 (M-factor = 1).

The actual concentration or concentration range is withheld as a trade secret.

Additional information: Information about base oil: Here applies the note L.
DMSO-extract <3% (IP 346)

4 First-aid measures

Description of necessary first-aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.

In case of swallowing: Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical treatment in case of troubles.

In case of skin contact: Remove residues with soap and water. In case of skin reactions, consult a physician.

In case of 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 ophthalmologist.

Most important symptoms and effects, whether acute or delayed

No data available

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water spray jet, extinguishing powder, carbon dioxide.

In case of major fire and large quantities: Water with tenside additive, alcohol resistant foam

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: metal oxide smoke, carbon monoxide and carbon dioxide

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and protective clothing to protect skin and eyes.

Additional information:

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid exposure. Provide adequate ventilation.

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear appropriate protective equipment. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Precautions for safe handling

Advices on safe handling: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed.
Avoid breathing dust/fume/gas/mist/vapours/spray. Wear appropriate protective equipment. Avoid contact with skin and eyes.
Take off contaminated clothing and wash it before reuse.
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.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Protect from heat and direct sunlight.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs. Do not store together with acids/alkalies and oxidation agents.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	633F16 - Sliding Paste, White	Canada: Alberta, OEL 15 min	10 mg/m ³ (Oil mist mineral)
		Canada: Alberta, OEL 8 hour	5 mg/m ³ (Oil mist mineral)
		Canada: BC, OEL TWA	0.2 mg/m ³ (Oil mist mineral)
		Canada: BC, OEL TWA	1 mg/m ³
			(Oil mist mineral, highly refined)
1305-62-0	Calcium hydroxide	Canada: Québec, VEMP	5 mg/m ³ (Oil mist mineral)
		Canada: Alberta, OEL 8 hour	5 mg/m ³
		Canada: BC, OEL TWA	5 mg/m ³
		Canada: Québec, VEMP	5 mg/m ³
1314-13-2	Zinc oxide	Canada: Alberta, OEL 15 min	10 mg/m ³
		Canada: Alberta, OEL 8 hour	2 mg/m ³
		Canada: BC, OEL STEL	10 mg/m ³ (respirable fraction)
		Canada: BC, OEL TWA	2 mg/m ³ (respirable fraction)
		Canada: Québec, VECD	10 mg/m ³ (respirable fraction)
		Canada: Québec, VEMP	2 mg/m ³ (respirable fraction)

Appropriate engineering controls

Provide adequate ventilation, and local exhaust as needed.

Individual protection measures, such as personal protective equipment

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/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection:	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.
Eye protection:	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Body protection:	Wear suitable protective clothing.
General hygiene considerations:	Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear appropriate protective equipment. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. 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.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
Colour:	Form: paste light brown
Odour:	characteristic
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	Not applicable
Water solubility:	insoluble
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	at 15 °C: 1.10 g/cm ³
Vapour density:	No data available
Particle characteristics:	No data available

Additional information

Additional information:	No data available
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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.
Incompatible materials:	Strong oxidizing agents, strong acids, strong bases
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

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.

Specific symptoms in animal studies, Rabbit: Not an irritant (OECD 404)

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

Specific symptoms in animal studies (Rabbit): Not an irritant (OECD 405)

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.

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: Reproductive toxicity 2 = Suspected of damaging fertility.

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 Calcium hydroxide (CAS 1305-62-0):

LD50 Rat, oral: > 2,000 mg/kg (OECD 425)

LD50 Rabbit, dermal: > 2,500 mg/kg (OECD 402)

LC50 Rat, inhalative (dust/mist): > 6.04 mg/L/4h (OECD 436)

12 Ecological information

Ecotoxicity

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

Information about Calcium hydroxide (CAS 1305-62-0):

Fish toxicity:

LC50 *Oncorhynchus mykiss*: 50.6 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 49.1 mg/L/48h (OECD 202)

NOEC *Crangon septemspinosa*: 32 mg/L/14d

Algae toxicity:

ErC50 *Pseudokirchneriella subcapitata* (green algae): 184.57 mg/L/72h (OECD 201)

NOEC *Pseudokirchneriella subcapitata* (green algae): 48 mg/L/72h (OECD 201)

Information about Dizinc pyrophosphate (CAS 7446-26-6):

Fish toxicity:

LC50 *Danio rerio* (zebrafish): 4.5 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 26 mg/L/48h (OECD 202)

Algae toxicity:

ErC50 *Pseudokirchneriella subcapitata* (green algae): 0.233 mg/L/72h (OECD 201)

NOEC *Pseudokirchneriella subcapitata* (green algae): 0.094 mg/L/72h (OECD 201)

Information about Zinc oxide (CAS 1314-13-2):

Fish toxicity:

LC50 *Cottus Bairdii*: 0.215 mg/L/96h

NOEC: 0.026 - 1.184 mg/L/30d

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 0.095 mg/L/48h

NOEC: 0.014 - 0.718 mg/L/30d

Algae toxicity:

EC50 *Pseudokirchneriella subcapitata* (green algae): 0.308 mg/L/72h

NOEC *Pseudokirchneriella subcapitata* (green algae): 0.024 mg/L/72h

Persistence and degradability

Further details: No data available

Bioaccumulative potential

Partition coefficient — n-octanol/water:

No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Incinerate according to applicable local, state and federal regulations.

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

TDG: UN3077

IMDG, IATA-DGR: UN 3077

UN proper shipping name

TDG, IMDG, IATA-DGR: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Zinc salt, inorganic)

Transport hazard class

TDG: 9

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

Packing group

TDG, IMDG, IATA-DGR: III

Environmental hazards

Marine pollutant: yes



Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Special Provisions: 16, 99

Explosive limit and limited quantity index: 5 kg

Marine pollutant: P

Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 375 966 967 969
Limited quantities: 5 kg
Excepted quantities: E1
Package - Instructions: P002, LP02
Package - Provisions: PP12
IBC - Instructions: IBC08
IBC - Provisions: B3
Tank instructions - IMO: -
Tank instructions - UN: T1, BK2, BK2, BK3
Tank instructions - Provisions: TP33
Stowage and handling: Category A. SW23
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

Proper shipping name: UN 3077,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Zinc salt, inorganic)
Hazard label: Miscellaneous & Environmentally hazardous
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo Aircraft only: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Special Provisions: A97 A158 A179 A197 A215
Emergency Response Guide-Code (ERG): 9L

15 Regulatory information

National regulations - Canada

Calcium hydroxide: DSL: listed
Dizinc pyrophosphate: DSL: listed
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: DSL: listed
Zinc oxide: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Revision date: 17/12/2025
Date of first version: 9/12/2020
Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

Classification procedure: Physical hazards, health hazards: on basis of test data
expert judgement and weight of evidence determination, bridging principle "substantially similar mixtures"
Environmental hazards: calculation method

Abbreviations and acronyms:

Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
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
DSL: Domestic Substances List
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Damage: Eye damage
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
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Reproductive toxicity: Reproductive toxicity
Skin Irritation: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

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.