

## 640F18 - Donning spray for silicone liners and prosthetic gloves (silicone, PVC)

Material number 640F18

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### 1. Identification

#### Product identifier

Trade name: 640F18 - Donning spray for silicone liners and prosthetic gloves (silicone, PVC)

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

General use: Pump spray: Solvent 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  
Zip code, city: Salt Lake City, UT 84120  
USA  
WWW: [www.ottobockus.com](http://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](mailto:USRegulatory@ottobock.com)  
Additional information: Corporate headquarters:  
Ottobock SE & Co. KGaA  
Max-Näder-Straße 15  
Duderstadt  
Germany

#### Emergency telephone 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. Hazard identification

#### Classification of the substance or mixture

Flammable Liquid - Category 3

Flammable liquid and vapor.

Eye Irritation - Category 2A

Causes serious eye irritation.

Specific Target Organ Toxicity (Single Exposure) - Category 3

May cause drowsiness or dizziness.

#### Label elements

Symbols:



Signal word:

**Warning**

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Hazard statements: Flammable liquid and vapor.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

Precautionary statements: If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store in a well-ventilated place. Keep container tightly closed.

### 3. Composition/information on ingredients

#### Mixtures

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 67-63-0	Isopropyl alcohol	30 - 60 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.

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

### 4. First aid measures

In case of inhalation: Move victim to fresh air. Do not allow victim to become chilled. Keep victim warm. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention.

Following skin contact: Change contaminated clothing.  
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. Consult an ophthalmologist.

After swallowing: Do not induce vomiting. Rinse mouth immediately and drink plenty of water. Immediately get medical attention.

#### Most important symptoms/effects, acute and delayed

May cause drowsiness or dizziness.  
High concentrations of vapors irritate the eyes and mucous membranes.  
After resorption: Headache, dizziness, inebriation, unconsciousness.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

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### Information to physician

Treat symptomatically.

## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Carbon dioxide, dry chemical powder, water spray jet  
In case of large fires water spray jet or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Strong water jet

### Specific hazards arising from the chemical

Flammable. Liquid evaporates quickly.  
Vapors are heavier than air and will travel at floor level.  
Vapors may form explosive mixtures with air. Beware of reignition.  
In case of fire may be liberated: Carbon monoxide and carbon dioxide.

### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus.

Additional information: Use fine water spray to cool endangered containers.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Remove persons not involved upwind.  
Wear suitable protective clothing. Do not breathe vapors. Provide adequate ventilation.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.  
Risk of explosion if the liquid enters the sewage system.  
If necessary, notify appropriate authorities.

### Methods and material for containment and cleaning up

Methods for clean-up: Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.  
Store in special closed containers and dispose of according to ordinance.  
Keep away from sources of ignition - No smoking.

## 7. Handling and storage

### Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.  
Wear appropriate protective equipment. Do not allow containers to stand open.  
Store product in a quantity adequate for 1 work-shift only.  
Do not spray in the eyes.

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### Precautions against fire and explosion:

Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.  
Avoid sparks. Do not use any spark discharging tools/utensils.  
Air combined with vapors may form potentially explosive mixtures that are heavier than air.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.  
Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight.

#### Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.

Avoid contact with strong oxidizing agents.

#### Further details:

Air combined with vapors may form potentially explosive mixtures that are heavier than air.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-63-0	Isopropyl alcohol	USA: ACGIH: STEL	984 mg/m <sup>3</sup> ; 400 ppm
		USA: ACGIH: TWA	492 mg/m <sup>3</sup> ; 200 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: STEL	1,225 mg/m <sup>3</sup> ; 500 ppm
		USA: NIOSH: TWA	980 mg/m <sup>3</sup> ; 400 ppm
		USA: OSHA: TWA	980 mg/m <sup>3</sup> ; 400 ppm

#### Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-63-0	Isopropyl alcohol	USA: ACGIH-BE1, urine	40 mg/L	Acetone in urine	end of shift at end of work week

### Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.  
Take precautionary measures against static discharges. Keep away from sources of ignition. Avoid sparks.

### Personal protection equipment (PPE)

#### Respiratory protection:

When vapors form, use respiratory protection.  
Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.  
When vapors form < 0.5%: Filter A2  
When vapors form > 0.5% - < 1%: Filter A3  
When vapors form > 1%: Respiratory protective device.

# SAFETY DATA SHEET

according to HCS 2024 (29 CFR 1910.1200)

Revision date: 12/17/2025  
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Hand protection:	protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: <ul style="list-style-type: none"><li>- Butyl caoutchouc (butyl rubber), thickness <math>\geq 0,5</math> mm, breakthrough time 8 h</li><li>- Fluororubber (Viton), thickness <math>\geq 0,4</math> mm, breakthrough time 8 h</li><li>- Nitrile rubber, thickness <math>\geq 0,35</math> mm, breakthrough time 8 h</li><li>- Polychloroprene, thickness <math>\geq 0,5</math> mm, breakthrough time 4 h</li></ul> 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. If necessary: Flame retardant protective clothing.
General hygiene considerations:	When using do not eat, drink or smoke. Keep away from food and drinks. Do not spray in the eyes. Provide a conveniently located eye rinse station.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 68 °F and 101.3 kPa	Form: liquid
Color:	colorless, clear
Odor:	alcoholic
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): (Isopropyl alcohol) 2.00 Vol-% UEL (Upper Explosive Limit): (Isopropyl alcohol) 12.00 Vol-%
Flash point/flash point range:	75.2 °F (DIN 51755)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Viscosity:	No data available
Water solubility:	at 68 °F: soluble
Partition coefficient: n-octanol/water:	(Isopropyl alcohol) $-0.16 \log P(o/w)$ Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Vapor pressure:	at 68 °F: (Isopropyl alcohol) 44 hPa at 122 °F: (Isopropyl alcohol) 225 hPa
Density:	at 68 °F: 0.908 g/mL
Vapor density:	No data available

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Particle characteristics: Not applicable

### Additional information

Ignition temperature: 797 °F (DIN 51794)

## 10. Stability and reactivity

Reactivity: Highly flammable liquid and vapor.

Chemical stability: Product is stable under normal storage conditions.

Possibility of hazardous reactions:

Liquid evaporates quickly.  
Vapors are heavier than air and will travel at floor level.  
Vapors may form explosive mixtures with air. Beware of reignition.

Conditions to avoid: Keep away from heat sources, sparks and open flames.  
Take precautionary measures against static discharges.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials: Do not store together with combustible or self-igniting materials or any highly flammable solids.

Hazardous decomposition products:

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

## 11. Toxicological information

### Information on toxicological effects

Acute toxicity: LD50 Rat, oral: 9,140 mg/kg

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: Eye Irritation - Category 2A = Causes serious eye irritation.  
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): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

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### Symptoms

High concentrations of vapors irritate the eyes and mucous membranes.  
After resorption: Headache, dizziness, inebriation, unconsciousness.  
After contact with skin:  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Isopropyl alcohol:  
LC50 Leuciscus idus test: 8970 mg/l/48h  
LC50 Goldfish: > 5000 mg/l/24h  
EC50 Daphnia magna: 9740 mg/l/24h

### Persistence and degradability

Further details: Product is readily biodegradable.

### Bioaccumulative potential

Partition coefficient: n-octanol/water:  
(Isopropyl alcohol) -0.16 log P(o/w)  
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

### Mobility in soil

No data available

### Other adverse effects

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

## 13. Disposal considerations

### Waste treatment methods

#### Product

Recommendation: Recycling or special waste incineration.

#### Package

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled. Cleaning agent (recommendation): water

## 14. Transport information

### UN number

DOT: UN1993  
IMDG, IATA-DGR: UN 1993

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### UN proper shipping name

DOT: UN 1993, FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol, mixture)  
IMDG, IATA-DGR: UN 1993, FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, mixture)

### Transport hazard class(es)

DOT: 3  
IMDG: Class 3, Subrisk -  
IATA-DGR: Class 3



### Packing group

DOT, IMDG, IATA-DGR: III

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to IMO instruments

No data available

### Special precautions for user

#### USA: Department of Transportation (DOT)

Labels: 3  
Symbols: G  
Special Provisions: B1, B52, IB3, T4, TP1, TP29  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 203  
Packaging – Bulk: 242  
Quantity limitations – Passenger aircraft / rail: 60 L  
Quantity limitations – Cargo only: 220 L  
Vessel stowage – Location: A

#### Sea transport (IMDG)

EmS: F-E, S-E  
Special Provisions: 223 274 955  
Limited quantities: 5 L  
Excepted quantities: E1  
Package - Instructions: P001, LP01  
Package - Provisions: -  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1, TP29  
Stowage and handling: Category A.  
Properties and observations: -  
Marine pollutant: no  
Segregation group: none





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### Air transport (IATA)

Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, mixture)  
Hazard label: Flamm. liquid  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L  
Passenger and Cargo Aircraft: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L  
Cargo Aircraft only: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L  
Special Provisions: A3  
Emergency Response Guide-Code (ERG): 3L

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

Isopropyl alcohol: TSCA Inventory: listed  
Carcinogen Status: IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
Other Environmental Laws:  
SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis <=1.0 %;  
Thresholds 25000/10000 lbs  
NIOSH Recommendations:  
Occupational Health Guideline: 0359

### National regulations - U.S. State Regulations

No data available

### Further regulations, limitations and legal requirements

No data available

## 16. Other information

Text for labeling: Contains 30 - 60 % Isopropyl alcohol.  
Contains Isopropyl alcohol.  
Revision date: 12/17/2025  
Date of first version: 4/23/2005  
Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022  
General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

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Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 2 (Moderate)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 2 (Moderate)

Physical Hazard: 0 (Minimal)

Personal Protection: K

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
K	

Abbreviations and acronyms:

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  
DOT: Department of Transportation's Safety Regulations (USA)  
EC: European Community  
EC50: Effective Concentration 50%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
Eye Irritation: Eye irritation  
Flammable Liquid: Flammable liquid  
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%  
LEL: Lower Explosion Limit  
log P(o/w): Partition coefficient: octanol/water  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
STOT SE: Specific target organ toxicity - single exposure  
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.