

## 1. Product and company identification

### Product identifier

Trade name: 635C2B - Thinner for 635C2A

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

General use: Thinner for SuperSkin for none-PUR products 635C2A.  
For orthopedic procedures. For commercial user only

Mixing ratio:

2 Components SuperSkin for none-PUR products

1 Part Thinner for 635C2A

### 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](http://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

### 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: Form: liquid  
Color: colorless

Odor: sweet

Classification: Flammable Liquid - Category 3; Specific Target Organ Toxicity (Single Exposure) - Category 3;

Hazard symbols:



Signal word: **Warning**

Hazard statements: Flammable liquid and vapor.  
May be harmful if swallowed.  
May cause drowsiness or dizziness.

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## Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharge.  
Avoid breathing vapors.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor if you feel unwell.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

**Regulatory status**

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

**Hazards not otherwise classified**

Narcotic effect in case of higher doses or prolonged exposure.  
Special danger of slipping by leaking/spilling product.  
see section 11: Toxicological information

**3. Composition / Information on ingredients**

Chemical characterization: C4 H10 O2 = CH3-CHOH-CH2-O-CH3

PGME, 1-Methoxypropan-2-ol

1-Methoxy-2-propanol

CAS-Number: 107-98-2

RTECS-Number: UB7700000

**4. First aid measures**

In case of inhalation: Provide fresh air.  
Move victim to fresh air, provide oxygen as needed. Seek medical attention.

Following skin contact: After contact with skin, wash immediately with plenty of water.  
Take off immediately all contaminated clothing. Seek medical aid in case of troubles.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Seek medical attention.

After swallowing: If swallowed, seek medical advice immediately and show this container or label.  
Do not induce vomiting without medical assistance.  
If victim is at risk of losing consciousness, position and transport on their side.  
Never give anything by mouth to an unconscious person.

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

May cause drowsiness or dizziness.  
Danger of cutaneous absorption.  
Other symptoms: Mucous membrane irritation, vomiting.

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**Information to physician**

Treat symptomatically.

On irritation of the respiratory system use an aerosol dispenser and treat with 5 doses of dexamethasone aerosol (e.g. Auxiloson, Thomae) every 10 minutes until symptoms cease.

Cave: Causes depression of CNS.

**5. Fire fighting measures**

Flash point/flash point range:

87.8 - 89.6 °F

Auto-ignition temperature: no data available

Suitable extinguishing media:

Water fog, alcohol resistant foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

strong water jet

**Specific hazards arising from the chemical**

Flammable liquid and vapor. Concentrated vapors are heavier than air.

In case of warming: On contact with air, potentially explosive mixtures may develop.

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

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus. Wear protective equipment.

Additional information:

Use water spray/stream to protect personnel and to cool endangered containers.

Do not allow fire water to penetrate into surface or ground water.

**6. Accidental release measures**

Personal precautions:

Eliminate all ignition sources if safe to do so.

Avoid contact with skin, eyes, and clothing.

Do not breathe vapors. Wear protective equipment.

Provide for sufficient ventilation, particularly in closed rooms.

Environmental precautions:

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

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:

Use only non-sparking tools. Take precautionary measures against static discharges.

Special danger of slipping by leaking/spilling product.

**7. Handling and storage****Handling**

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin, eyes, and clothing. Do not breathe vapor.

Wear protective equipment. When using do not eat, drink or smoke.

Precautions against fire and explosion:

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Use only non-sparking tools.

**Storage**

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 59 °F and 77 °F.

Keep away from sources of ignition and heat. Protect from light.

Suitable material: Stainless steel, steel

Unsuitable materials: Aluminium, light metals, copper.

Hints on joint storage:

Avoid contact with strong acids, strong bases and strong oxidizing agents.

Keep away from oxidizers.

Keep away from food, drink and animal feedingstuffs.

**8. Exposure controls / personal protection**

**Exposure guidelines**

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: STEL	369 mg/m <sup>3</sup> ; 100 ppm
USA: ACGIH: TWA	184 mg/m <sup>3</sup> ; 50 ppm
USA: NIOSH: STEL	540 mg/m <sup>3</sup> ; 150 ppm
USA: NIOSH: TWA	360 mg/m <sup>3</sup> ; 100 ppm

Additional information: The product can be absorbed through skin.

**Engineering controls**

Provide good ventilation and/or an exhaust system in the work area.

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: Butyl caoutchouc (butyl rubber)-Layer thickness 0.5 mm.

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

Unsuitable materials: natural rubber, nitrile rubber, PVC.

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.

General hygiene considerations:

Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing.

Do not breathe vapors. Wear protective equipment.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

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**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

Appearance:	Form: liquid Color: colorless
Odor:	sweet
Odor threshold:	no data available
pH value:	at 68 °F, 200 g/L: 4 - 7
Melting point/freezing point:	-140.8 °F
Initial boiling point and boiling range:	248 °F (OECD 103)
Flash point/flash point range:	87.8 - 89.6 °F
Evaporation rate:	no data available
Flammability:	Flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 1.70 Vol-% UEL (Upper Explosive Limit): 13.10 Vol-%
Vapor pressure:	at 68 °F: 12 hPa
Vapor density:	no data available
Density:	at 68 °F: 0.921 g/mL at 77 °F: 0.916 g/mL
Water solubility:	at 68 °F: complete miscible
Partition coefficient: n-octanol/water:	-0.437 log P(o/w) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	at 68 °F: 1.7 mPa*s
Explosive properties:	On contact with air, potentially explosive mixtures may develop.
Ignition temperature:	548.6 °F (EU A.15)
Refraction index:	at 68 °F: 1.404
Additional information:	Molar mass: 90.12 g/mol Relative vapor density at 68 °F (air=1): 3.11 Solvent contents: 100%

**10. Stability and reactivity**

Reactivity:	Flammable liquid and vapor.
Chemical stability:	Hygroscopic. Stable under recommended storage conditions.
Possibility of hazardous reactions	On contact with air, potentially explosive mixtures may develop.
Conditions to avoid:	heating. Keep away from sources of ignition. Take precautionary measures against static discharges.
Incompatible materials:	Strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products:

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

Thermal decomposition: no data available

## 11. Toxicological information

### Toxicological tests

Acute toxicity: LD50 Rat, oral: 4016 mg/kg  
 LC50 Rat, inhalative: > 6 mg/L /4h  
 LD50 Rabbit, dermal: > 10000 mg/kg

Toxicological effects: Acute toxicity (oral):  
 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: (in-vivo): Not an irritant (EU B.4)  
 Eye damage/irritation: Based on available data, the classification criteria are not met.  
 Specific symptoms in animal studies, rabbit: (in-vivo): Not an irritant (EU B.5)  
 Sensitisation to the respiratory tract: Lack of data.  
 Skin sensitisation: Based on available data, the classification criteria are not met.  
 Specific symptoms in animal studies, guinea pig (in-vivo): not sensitising (EU B.6)  
 Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met. In-vitro:  
 Gene-mutations mammalian cells: negative (OECD 476).  
 Chromosomal aberrations mammalian cells: negative (OECD 473).  
 Bacterial mutagenicity: negative (Ames test, OECD 471) .  
 In-vivo:  
 Micronucleus test: negative (OECD 474).  
 Carcinogenicity: Based on available data, the classification criteria are not met.  
 NOAEL (inhalative), Mouse (male/female): 1000 ppm (OECD 453)  
 NOAEL (inhalative), rat (male/female): 300 ppm (OECD 453)  
 Reproductive toxicity: Based on available data, the classification criteria are not met.  
 Reproduction toxicity: NOAEL (inhalative), rat (male/female): 300 ppm (OECD 416)  
 Developmental toxicity: NOAEC (inhalative), rat (male/female): 1500 ppm (OECD 414)  
 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): Based on available data, the classification criteria are not met.  
 NOAEL (oral), rat (male): 919 mg/kg/d (OECD 407)  
 NOEL (inhalative), rat (male/female): 300 ppm (OECD 453)  
 NOEAL (inhalative), Rabbit (male/female): >1000 mg/kg/d (OECD 410)  
 Aspiration hazard: Lack of data.

Other information: After resorption of toxic quantities: CNS disorders  
 Toxic effect on liver. Toxic effect on kidneys.

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**Symptoms**

In case of inhalation: Vapors are slightly irritating to mucous membranes.  
Inhalation of vapors may induce headaches or vomiting.  
Narcotic effect in case of higher doses or prolonged exposure.  
In case of ingestion: Mucous membrane irritation, vomiting.  
After contact with skin: Danger of cutaneous absorption.  
After eye contact: May cause irritations.

**12. Ecological information****Ecotoxicity**

Aquatic toxicity: Algae toxicity:  
EC50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/7 d.  
Daphnia toxicity:  
LC50 Daphnia magna (Big water flea): 21000 -25900 mg/L/48h.  
Fish toxicity:  
LC50 Leuciscus idus: 4000 - 10000 mg/L/96 h.  
LC50 Pimephales promelas (fathead minnow): 20800 mg/L/96 h.  
LC50 Oncorhynchus mykiss: >1000 mg/L/96 h.  
LC50 S. gairdnerii: >1000 mg/L

Effects in sewage plants: toxicity to microorganisms:  
IC50 activated sludge: >1000 mg/L/3h (OECD 209).

**Mobility in soil**

no data available

**Persistence and degradability**

Analytical method: OECD 301E  
Degree of elimination: DOC reduction (28 days) 96%  
Evaluation text: Product is readily biodegradable.

**Additional ecological information**

Oxygen demand: BOD: >60%  
Volatile organic compounds (VOC):  
100 % by weight = 921 g/L  
General information: Do not allow to enter into ground-water, surface water or drains.

**13. Disposal considerations****Product**

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

**Contaminated packaging**

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.

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**14. Transport information**

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

Identification numbers: UN3092  
 Proper shipping name: UN 3092, 1-METHOXY-2-PROPANOL  
 DOT hazard class or division: 3  
 PG: III  
 Label codes: 3  
 Special provisions: B1, IB3, T2, TP1  
 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)**

UN number: UN 3092  
 Proper shipping name: UN 3092, 1-METHOXY-2-PROPANOL  
 IMDG: Class 3, Subrisk -  
 Packing Group: III  
 EmS: F-E, S-D  
 Special provisions: -  
 Limited quantities: 5 L  
 EQ: E1  
 Contaminated packaging - Instructions: P001, LP01  
 Contaminated packaging - Provisions: -  
 IBC - Instructions: IBC03  
 IBC - Provisions: -  
 Tank instructions - IMO: -  
 Tank instructions - UN: T2  
 Tank instructions - Provisions: TP1  
 Stowage and handling: Category A.  
 Properties and observations: Colourless liquid. Flashpoint: 29°C to 35°C c.c. Explosive limits: 1,7% to 11,5%. Miscible with water. Reacts with strong oxidizing substances. Irritating to skin, eyes and mucous membranes  
 Marine pollutant: no  
 Segregation group: none

**Air transport (IATA)**

UN/ID number: UN 3092  
 Proper shipping name: UN 3092, 1-METHOXY-2-PROPANOL  
 ICAO/IATA: Class 3  
 PG: III  
 Hazard: Flamm. liquid  
 EQ: E1  
 Passenger Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L  
 Passenger: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L  
 Cargo: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L  
 ERG: 3L

### 15. Regulatory information

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

TSCA Inventory: listed  
 TSCA HPVC: not listed  
 Clean Air Act:  
     SOCMI Chemical: yes  
 NIOSH Recommendations:  
     Occupational Health Guideline: 0536

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

Idaho Air Pollutant List:  
     Title 585: AAC: 18 - EL: 24 - OEL: 360 - Title 586: -  
 Massachusetts Haz. Substance codes: 4,6 F8  
 Minnesota Haz. Substance:  
     Codes: A - Ratings: 8.12 - Status: -  
 Pennsylvania Haz. Substance code: -  
 Washington Air Contaminant:  
     TWA: 100 ppm - 360 mg - STEL: 150 ppm - 540 mg

#### National regulations - Canada

DSL: listed

#### National regulations - Great Britain

Hazchem-Code: •2Y

### 16. Other information

Text for labeling: Safety data sheet available on request.

Hazard rating systems:  
 NFPA Hazard Rating:  
     Health: 1 (Slight)  
     Fire: 3 (Serious)  
     Reactivity: 0 (Minimal)



HMIS Version III Rating:  
     Health: 1 (Slight)  
     Flammability: 3 (Serious)  
     Physical Hazard: 0 (Minimal)  
     Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0
	X

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 11/26/1995

#### 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.