

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

Revision date: 3/22/2018 Version: 15 Language: en-US Date of print: 5/24/2018

635C2B - Thinner for 635C2A

Material number 635C 2B

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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
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

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



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Hazard statements: Flammable liquid and vapor.

May be harmful if swallowed.

May cause drowsiness or dizziness.

Precautionary statements

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

smokina.

Take precautionary measures against static discharge.

Avoid breathing vapors.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/or 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:

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 spray jet, 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 appropriate protective equipment.

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

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 appropriate 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 appropriate 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.



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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.

Avoid contact with strong acids, strong bases and strong oxidizing agents. Hints on joint storage:

Keep away from combustible materials.

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

Туре	Limit value
USA: ACGIH: STEL	369 mg/m³; 100 ppm
USA: ACGIH: TWA	184 mg/m³; 50 ppm
USA: NIOSH: STEL	540 mg/m³; 150 ppm
USA: NIOSH: TWA	360 mg/m³; 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)

Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Eye/face protection

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 appropriate 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 hPaVapor density:No data availableDensity:at 68 °F: 0.921 g/mLat 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



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Hazardous decomposition products:

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

No data available Thermal decomposition:

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)

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

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.

with Qualisys SUMDAT printed by Otto Bock, Utah



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14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN3092

Proper shipping name: UN 3092, UN 3092, 1-METHOXY-2-PROPANOL

Hazard class or Division: Ш Packing Group: 3 Labels

B1, IB3, T2, TP1 Special provisions:

Packaging - Exceptions: 150 Packaging - Non-bulk: 203 242 Packaging - Bulk: Quantity limitations - Passenger aircraft / rail:

60 L

Quantity limitations - Cargo only: 220 L Vessel stowage - Location: Α

Sea transport (IMDG)

UN number: UN 3092

UN 3092, 1-METHOXY-2-PROPANOL Proper shipping name:

Class or division, Subsidary risk: Class 3, Subrisk -

Packing Group: Ш

F-E, S-D EmS:

Special provisions: 5 L Limited quantities: **F1** Excepted quantities:

P001, LP01 Contaminated packaging - Instructions:

Contaminated packaging - Provisions: IBC - Instructions: IBC03

IBC - Provisions: Tank instructions - IMO: Tank instructions - UN: T2 Tank instructions - Provisions: TP1

Stowage and handling: Category A.

Colourless liquid. Flashpoint: 29°C to 35°C c.c. Explosive limits: 1,7% to Properties and observations:

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

Class or division, Subsidary risk: Class 3 Packing Group: Ш

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

Emergency Response Guide-Code (ERG):

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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: Contains 100 % 1-Methoxy-2-propanol. 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

Changes in section 1.3: Corporate headquarters Reason of change:

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.

