

1. Product and company identification

Product identifier

Trade name: 636W1 - OTTO BOCK Universal Adhesive

This safety data sheet pertains to the following products:
636W1=4.540 = Universalkleber

Recommended use and restrictions on use

General use: Adhesive for orthopedic procedures.
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

E-mail: 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 phone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Color: clear

Odor: Solvent-like

Classification: Flammable Liquid 2. Eye Irritation 2A. Reproductive toxicity 2.
Specific Target Organ Toxicity (Single Exposure) 3.
Specific Target Organ Toxicity (Repeated Exposure) 2.

Hazard symbols:



Signal word: **Danger**

Hazard statements: Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements: Obtain special instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe vapors.
Wear protective gloves/protective clothing/eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep cool.

Regulatory status

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

Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.
Special danger of slipping by leaking/spilling product. the product is skin resorptive
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Cellulose in organic solvents.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 67-64-1	Acetone	35 - 40 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 141-78-6	Ethyl acetate	20 - 25 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 108-88-3	Toluene	10 - 15 %	Flammable Liquid 2. Skin Irritation 2. Reproductive toxicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 2. Aspiration Toxicity 1.
CAS 67-63-0	Isopropyl alcohol	5 - 10 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 123-86-4	n-Butyl acetate	1 - 5 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 108-94-1	Cyclohexanone	< 1 %	Flammable Liquid 3. Acute Toxicity 4 (inhalative).

4. First aid measures

General information:	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention. If victim is at risk of losing consciousness, position and transport on their side.
Following skin contact:	After contact with skin, wash immediately with soap and plenty of water. Take off contaminated clothing and wash it before reuse. 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. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. Causes serious eye irritation.

Information to physician

Combat acidosis. Monitor alkali reserves.
Monitor breathing. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.
Attention: several hours latency period.
Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:	-17 °C
Auto-ignition temperature:	No data available
Suitable extinguishing media:	Water spray jet, Sand, extinguishing powder, carbon dioxide.
Extinguishing media which must not be used for safety reasons:	Strong water jet Full water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor.
Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapors may proceed on the ground over great distances and cause fire and backflashes.
In case of fire may be liberated: carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters:	Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.
Additional information:	Use fine water spray to cool endangered containers.

6. Accidental release measures

Personal precautions:	<p>Avoid breathing vapors. Avoid contact with the substance.</p> <p>Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Provide adequate ventilation.</p> <p>Wear appropriate protective equipment. Keep unprotected people away.</p> <p>Take off contaminated clothing and wash it before reuse. Cordon off downwind area at risk and warn inhabitants.</p>
Environmental precautions:	<p>Do not allow to enter into ground-water, surface water or drains.</p> <p>If necessary, notify appropriate authorities.</p>
Methods for clean-up:	<p>Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).</p> <p>Beware of reignition. Thoroughly clean surrounding area.</p> <p>In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).</p>
Additional information:	<p>Use explosion-proof equipment and non-sparking tools/utensils.</p> <p>Special danger of slipping by leaking/spilling product.</p>

7. Handling and storage

Handling

Advices on safe handling:	<p>Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapors. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.</p> <p>Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.</p> <p>Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.</p> <p>When handling large quantities, supply emergency spray.</p>
Precautions against fire and explosion:	<p>Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.</p> <p>Use only explosion-protected equipment/instruments. Do not weld.</p> <p>In partially filled containers explosive mixtures may form.</p>

Storage

Requirements for storerooms and containers:	<p>Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Keep only in the original container.</p> <p>Protect from heat and direct sunlight.</p> <p>Store containers in upright position.</p>
Hints on joint storage:	<p>Keep away from food, drink and animal feedingstuffs.</p> <p>Keep away from acids and oxidizing agents.</p> <p>On contact with barium hydroxide, sodium hydroxide and many other alkaline materials condensation may occur. Attacks many plastics and rubbers.</p>

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	Canada: OEL 15 min	1,800 mg/m ³ ; 750 ppm
		Canada: OEL 8 hour	1,200 mg/m ³ ; 500 ppm
		Canada: OEL STEL	500 ppm
		Canada: OEL TWA	250 ppm
		Canada: VECD	500 ppm
		Canada: VEMP	250 ppm
		USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: IDLH: TWA	2,500 ppm
		USA: NIOSH: TWA	590 mg/m ³ ; 250 ppm
		USA: OSHA: TWA	2,400 mg/m ³ ; 1,000 ppm
141-78-6	Ethyl acetate	Canada: OEL 8 hour	1,440 mg/m ³ ; 400 ppm
		Canada: OEL TWA	150 ppm
		Canada: VEMP	1,440 mg/m ³ ; 400 ppm
		USA: ACGIH: TWA	1,440 mg/m ³ ; 400 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: TWA	1,400 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	1,400 mg/m ³ ; 400 ppm
108-88-3	Toluene	Canada: OEL 8 hour	188 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Canada: OEL TWA	20 ppm
		Canada: VEMP	20 ppm
		USA: ACGIH: TWA	20 ppm
		USA: IDLH: TWA	500 ppm
		USA: NIOSH: STEL	560 mg/m ³ ; 150 ppm
		USA: NIOSH: TWA	375 mg/m ³ ; 100 ppm
		USA: OSHA: Ceiling	500 ppm
		USA: OSHA: STEL	300 ppm
		USA: OSHA: TWA	200 ppm
67-63-0	Isopropyl alcohol	Canada: OEL 15 min	984 mg/m ³ ; 400 ppm
		Canada: OEL 8 hour	492 mg/m ³ ; 200 ppm
		Canada: OEL STEL	400 ppm
		Canada: OEL TWA	200 ppm
		Canada: VECD	400 ppm
		Canada: VEMP	200 ppm
		USA: ACGIH: STEL	984 mg/m ³ ; 400 ppm
		USA: ACGIH: TWA	492 mg/m ³ ; 200 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: STEL	1,225 mg/m ³ ; 500 ppm
		USA: NIOSH: TWA	980 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	980 mg/m ³ ; 400 ppm

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CAS No.	Designation	Type	Limit value
123-86-4	n-Butyl acetate	Canada: OEL 15 min	950 mg/m ³ ; 200 ppm
		Canada: OEL 8 hour	713 mg/m ³ ; 150 ppm
		Canada: OEL STEL	150 ppm
		Canada: OEL TWA	50 ppm
		Canada: VECD	150 ppm
		Canada: VEMP	50 ppm
		USA: ACGIH: STEL	150 ppm
		USA: ACGIH: TWA	50 ppm
		USA: IDLH: TWA	1,700 ppm
		USA: NIOSH: STEL	950 mg/m ³ ; 200 ppm
		USA: NIOSH: TWA	710 mg/m ³ ; 150 ppm
		USA: OSHA: TWA	710 mg/m ³ ; 150 ppm
108-94-1	Cyclohexanone	Canada: OEL 15 min	200 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Canada: OEL 8 hour	80 mg/m ³ ; 20 ppm (may be absorbed through the skin)
		Canada: OEL STEL	50 ppm (may be absorbed through the skin)
		Canada: OEL TWA	20 ppm (may be absorbed through the skin)
		Canada: VECD	50 ppm (may be absorbed through the skin)
		Canada: VEMP	20 ppm (may be absorbed through the skin)
		USA: ACGIH: TWA	50 mg/m ³ ; 20 ppm (may be absorbed through the skin)
		USA: IDLH: TWA	700 ppm
		USA: NIOSH: TWA	100 mg/m ³ ; 25 ppm (may be absorbed through the skin)
		USA: OSHA: TWA	200 mg/m ³ ; 50 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift
108-88-3	Toluene	USA: ACGIH-BEI, blood	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
		USA: ACGIH-BEI, urine	0.03 mg/L	Toluene in urine	end of exposure or end of shift
		USA: ACGIH-BEI, urine	0.3 mg/g creatinine	o-Cresol in urine	end of exposure or end of shift
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of work week
108-94-1	Cyclohexanone	USA: ACGIH-BEI, urine	8 mg/L	Cyclohexanol	end of exposure or end of shift
		USA: ACGIH-BEI, urine	80 mg/L	1,2-Cyclohexaned iol	end of shift at end of work week

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.
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: Flame retardant, antistatic and chemical resistant protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber - Layer thickness 0,1 mm.
Breakthrough time: > 480 min.
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.
Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing vapors. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
When using do not eat or drink. Wash hands thoroughly after handling.
When handling large quantities, supply emergency spray.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Color: clear
Odor:	Solvent-like
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	56.05 °C
Flash point/flash point range:	-17 °C
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 1.10 Vol-% UEL (Upper Explosive Limit): 13.00 Vol-%
Vapor pressure:	at 20 °C: 70 hPa at 50 °C: (Acetone) 800 hPa
Vapor density:	No data available
Density:	at 20 °C: 1.01 g/mL
Water solubility:	at 20 °C: immiscible
Partition coefficient: n-octanol/water:	-0.23 log P(o/w) (Acetone) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. 2.73 log P(o/w) (Toluene) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 0.68 log P(o/w) (ethyl acetate) 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 20 °C: 7,000 mPa*s
Explosive properties:	Vapors may form explosive mixtures with air.
Ignition temperature:	415 °C

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Heating will lead to pressure increase: Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight.

Incompatible materials: Attacks many plastics and rubbers.
On contact with barium hydroxide, sodium hydroxide and many other alkaline materials condensation may occur.
Keep away from acids and oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

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: Lack of data.

Serious eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.

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 the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) 2 = May cause damage to organs through prolonged or repeated exposure.

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

Other information: Information about Acetone:
LD50 Rat, oral: 5,800 mg/kg
LD50 Rabbit, dermal: > 7,426 mg/kg
LC50 Rat, inhalative, vapor: 76 mg/L/4h

Information about Ethyl acetate:
LD50 Rabbit, oral: > 4,934 mg/kg
LD50 Rabbit, dermal: > 20,000 mg/kg

Information about Toluene:
LD50 Rat, oral: > 5,000 mg/kg
LD50 Rabbit, dermal: > 5,000 mg/kg
LC50 Rat, inhalative, vapor: 30 mg/L/4h

Symptoms

Symptoms: Headache, dizziness, fatigue, muscle weakness, numbing effect and, in exceptional cases, unconsciousness. Danger of metabolic acidosis.

In case of inhalation: Vapors may cause drowsiness and dizziness.

In case of ingestion:

The absorption of even very small amounts of this product through the stomach may lead to health problems. Symptoms: Gastric and intestinal problems.

After contact with skin: Repeated exposure may cause skin dryness or cracking.

The product can be absorbed through skin.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Information about Acetone:

Fish toxicity: LC50 Pimephales promelas (fathead minnow) 8120 mg/L/96h (OCED 203)

Daphnia toxicity: EC50 Daphnia pulex (water flea) 8800 mg/L/48h

NOEC Daphnia magna (Big water flea) 2212 mg/L/28d

Bacterial toxicity: effects on activated sludge: EC50 61150 mg/L/0.5h

Information about Ethyl acetate:

Fish toxicity: LC50 Pimephales promelas (fathead minnow) 134 mg/L/96h

NOEC Pimephales promelas (fathead minnow) < 9,65 mg/L/32d

Daphnia toxicity: NOEC Daphnia magna (Big water flea) 2,4 mg/L/21d

Mobility in soil

No data available

Persistence and degradability

Further details:

No data available

Additional ecological information

Volatile organic compounds (VOC):

77.97 % by weight

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.

Package

Recommendation:

Dispose of waste according to applicable legislation.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:

UN 1133

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1133, ADHESIVES

Transport hazard class(es)

ADR/RID:

Class 3, Code: F1

IMDG:

Class 3, Subrisk -

IATA-DGR:

Class 3



Packing group

ADR/RID, IMDG, IATA-DGR:

III

Environmental hazards

Marine pollutant:

no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Identification number:

UN1133

Proper shipping name:

UN 1133, ADHESIVES

Hazard class or Division:

3

Packing Group:

III

Labels:

3

Special Provisions:

B1, B52, IB3, T2, TP1

Packaging – Exceptions:

150

Packaging – Non-bulk:

173

Packaging – Bulk:

242

Quantity limitations – Passenger aircraft / rail:

60 L

Quantity limitations – Cargo only:

220 L

Vessel stowage – Location:

A

Vessel stowage – Other:



Canada: Transportation of Dangerous Goods (TDG)

UN Number:

UN1133

Shipping name:

UN 1133, adhesives

TDG class:

3

Packing group:

III

Explosive limit and limited quantity index:

5L

Passenger carrying road or rail index:

60L



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Sea transport (IMDG)

UN number: UN 1133
Proper shipping name:: UN 1133, ADHESIVES
Class or division, Subsidiary risk: Class 3, Subrisk -
Packing Group: III
EmS: F-E, S-D
Special Provisions: 223 955
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T2
Tank instructions - Provisions: TP1
Stowage and handling: Category A.
Properties and observations: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.
Marine pollutant: no
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1133
Proper shipping name:: UN 1133, ADHESIVES
Class or division, Subsidiary risk: Class 3
Packing Group: III
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 - Canada

Acetone: DSL: listed
Ethyl acetate: DSL: listed
Toluene: DSL: listed
Isopropyl alcohol: DSL: listed
n-Butyl acetate: DSL: listed
Cyclohexanone: DSL: listed

National regulations - U.S. Federal Regulations

Acetone:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA SOCM Chemical: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Code U002</p> <p>RCRA Groundwater Monitoring: Methods 8240 / PQL 100</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0004*</p>
Ethyl acetate:	<p>TSCA Inventory: listed</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Code U112</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0260</p>
Toluene:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status:</p> <p>IARC Rating: Group 3</p> <p>OSHA Carcinogen: not listed</p> <p>NTP Rating: not listed</p> <p>Clean Air Act:</p> <p>CAA Hazardous Air Pollutants: yes</p> <p>CAA SOCM Chemical: yes</p> <p>Clean Water Act:</p> <p>CWA Hazardous Substances: RQ 1000 lbs.</p> <p>CWA Priority Pollutants: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 1000 lbs.</p> <p>RCRA Hazardous Wastes: Code U220</p> <p>RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 2, 5</p> <p>SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0619</p>
Isopropyl alcohol:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status:</p> <p>IARC Rating: Group 3</p> <p>OSHA Carcinogen: not listed</p> <p>NTP Rating: not listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0359</p>



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n-Butyl acetate:

TSCA Inventory: listed

Clean Water Act:

CWA Hazardous Substances: RQ 5000 lbs.

Other Environmental Laws:

CERCLA: RQ 5000 lbs.

NIOSH Recommendations:

Occupational Health Guideline: 0072

Cyclohexanone:

TSCA Inventory: listed

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Clean Air Act:

CAA SOCM Chemical: yes

Other Environmental Laws:

CERCLA: RQ 5000 lbs.

RCRA Hazardous Wastes: Code U057

NIOSH Recommendations:

Occupational Health Guideline: 0166

National regulations - U.S. State Regulations

Acetone:	<p>California Prop 65 List: None</p> <p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 89 - EL: 119 - OEL: 1780</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9</p> <p>Minnesota Haz. Substance: Codes: AON - Ratings: 7.16 - Status: Title III</p> <p>New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg</p>
Ethyl acetate:	<p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 70 - EL: 93,3 - OEL: 1400 - Title 586: -</p> <p>Main Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 20000</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6 F8</p> <p>Minnesota Haz. Substance: Codes: AO - Ratings: 6.83 - Status: Title III.</p> <p>New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 400 ppm - 1400 mg</p>
Toluene:	<p>California Proposition 65: developmental</p> <p>Delaware Air Quality Management List: DRQ: 1000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 18.75 - EL: 25 - OEL: 375 - Title 586: -</p> <p>Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 2000</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6 F7 F8 F9</p> <p>Michigan Critical Material: Note: - - CMR: 32 - Parameter: 00108-88-3 - Annual Usage Parameter: 100</p> <p>Minnesota Haz. Substance: Codes: ANO - Ratings: 8.64 - Status: Air Pollutant Title III. TRI. Water Pollutant</p> <p>New Jersey RTK Hazardous Substance: DOT: 1294 - Sub No.: 1866 - TPQ: -</p> <p>New York List of Hazardous Substances: RQ-Air: 1000 - RQ-Land: 1 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 100 ppm - 375 mg - STEL: 150 ppm - 560 mg</p>

636W1 - OTTO BOCK Universal Adhesive

Material number 636W 1

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Isopropyl alcohol:

Idaho Air Pollutant List:

Title 585: AAC: 49 -- EL: 65.3 -- WEL: 980 -Title 586: -

Massachusetts Haz. Substance codes: 2,4,5,6 F9

Minnesota Haz. Substance:

Codes: ANO -- Ratings: 7.84 -- Status: Title III. TRI.

New Jersey RTK Hazardous Substance:

DOT: 1219 - Sub No.: 1076 - TPQ: -

Pennsylvania Haz. Substance code: E

Washington Air Contaminant:

TWA: 400 ppm - 980 ppm -- STEL: 500 ppm - 1225 mg

n-Butyl acetate:

CAS# 123-86-4 can be found on the following state right to know lists:

- California, Massachusetts, Minnesota, New Jersey, Pennsylvania.

Cyclohexanone:

California Proposition 65 code: -

Delaware Air Quality Management List:

DRQ: 5000 - RQ State: Federal Regulations Apply

Idaho Air Pollutant List:

Title 585: AAC: 5 - EL: 6.67 - OEL: 100 - Title 586: -

Massachusetts Haz. Substance codes: 2,4,6 F8

Minnesota Haz. Substance:

Codes: ANO - Ratings: 5.02 - Status: Title III.

New York List of Hazardous Substances:

RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.

Pennsylvania Haz. Substance code: E

Washington Air Contaminant:

TWA: 25 ppm - 100 mg

National regulations - EC member states

Further regulations, limitations and legal requirements:

Product:

Use restriction according to REACH annex XVII, no.: 3, 40, 48, 75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P5c

Acetone:

Regulation (EU) 2019/1148 (marketing and use of explosives precursors): listed

REGULATION (EC) 273/2004 (Drug precursors): Category 3

REGULATION (EC) 111/2005 (Trade with drug precursors): Category 3

Toluene:

REGULATION (EC) 273/2004 (Drug precursors): Category 3

REGULATION (EC) 111/2005 (Trade with drug precursors): Category 3

16. Other information

Text for labeling:

Contains 35 - 40 % Acetone, 20 - 25 % Ethyl acetate, 10 - 15 % Toluene, 5 - 10 % Isopropyl alcohol, 1 - 5 % n-Butyl acetate, < 1 % Cyclohexanone.

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)
Fire: 3 (Serious)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 3 (Serious) - Chronic effects
Flammability: 3 (Serious)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		0
X		

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
Aspiration Toxicity: Aspiration toxicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
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
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Reproductive toxicity: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irritation: Skin irritation
STOT RE: Specific target organ toxicity - repeated exposure
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
WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 8: Occupational exposure limit values

Date of first version: 30/10/1994

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.