

1 Identification

Product identifier

Trade name: 636W23-H - UHU PLUS Hardener

Recommended use and restrictions on use

General use: Adhesive
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

Skin Corrosion 1B Causes severe skin burns and eye damage.

Eye Damage 1 Causes serious eye damage.

Sensitization - skin 1 May cause an allergic skin reaction.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary statements:

Do not breathe mist/vapours/spray.
Wash hands and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Take off contaminated clothing and wash it before reuse.

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: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 10563-29-8	N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine	2.5 - 10 %	Acute Toxicity 4 (oral). Skin Corrosion 1B. Sensitization - skin 1.
CAS 90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	3 - 5 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Skin Corrosion 1B. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - chronic 3.

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

4 First-aid measures

Description of necessary first-aid measures

General information: First aider: Pay attention to self-protection!
If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

In case of swallowing: Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Never give anything by mouth to an unconscious person.
Immediately get medical attention.

In case of skin contact: After contact with skin, wash immediately with soap and plenty of water.
Immediately get medical attention.

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. Seek the attention of an ophthalmologist immediately.

Most important symptoms and effects, whether acute or delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

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:

Extinguishing is to be in accordance with the surrounding fire.
Water spray jet, foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:

Full water jet.

Specific hazards arising from the product

On heating or in case of fire toxic gases may form.
In case of fire may be liberated: nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full protection outfit (suit) against chemicals.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. If possible, eliminate leakage.
Do not breathe mist/vapours/spray. Avoid contact with the substance. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away.

Environmental precautions:

Do not allow to enter into surface water or drains.
If necessary, notify appropriate authorities.

Methods and material for containment and cleaning 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.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).
Never return spills in original containers for re-use.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.
Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep only in the original container in a cool, well-ventilated place.
Keep container tightly closed. Protect from excessive heat.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	Canada: Alberta, OEL 8 hour	4.2 mg/m ³ ; 1 ppm (may be absorbed through the skin)
		Canada: BC, OEL TWA	1 ppm (may be absorbed through the skin)
		Canada: Ontario, OEL TWA	3 mg/m ³ ; 0.5 ppm (may be absorbed through the skin)
		Canada: Québec, VEMP	4.2 mg/m ³ ; 1 ppm (may be absorbed through the skin)

Appropriate engineering controls

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

Individual protection measures, such as personal protective equipment

Respiratory protection: Not necessary, if the room is well-ventilated.
In case of inadequate ventilation wear respiratory protection. Wear half-mask respirator with combination filter for organic vapours and particles. 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.
permanent contact, Glove material: butyl caoutchouc (butyl rubber), ethylene vinyl alcohol laminate (EVAL)
Layer thickness: 0.7 mm
Breakthrough time: >480 min.
During splash contact, Glove material: Neoprene, butyl caoutchouc (butyl rubber)
Breakthrough time: 10 - 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.

General hygiene considerations:
Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.
Have eye wash bottle or eye rinse ready at work place. 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

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	yellow
Odour:	amine odour
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	approx. 278 °C
Flammability:	Not applicable
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	> 100 °C
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Dynamic viscosity:	at 20 °C: 32,500 mPa*s
Water solubility:	at 20 °C: immiscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	at 20 °C: 0.95 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties: Product is not explosive.

Solid content: 84.2 %

10 Stability and reactivity

Reactivity:	Stable under recommended storage conditions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reactions are known.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight.
Incompatible materials:	None known
Hazardous decomposition products:	No decomposition when used properly.

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: Skin Corrosion 1B = Causes severe skin burns and eye damage.
 Serious eye damage/irritation: Eye Damage 1 = Causes serious eye damage.
 Sensitisation to the respiratory tract: Lack of data.
 Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.
 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: Based on available data, the classification criteria are not met.
 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: Amines, polyethylenepoly-, triethylenetetramine fraction:
 LD50, Rat: 1,716 (OECD 401)
 LD50, Rabbit: 1,465 (OECD 402)

Symptoms

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

12 Ecological information

Ecotoxicity

Further details: No data available

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 penetrate into soil, waterbodies or drains.
Avoid spills and leaks. Very small amounts contaminates drinking water.
Do not release undiluted and unneutralized to the sewer.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

14 Transport information

UN number

TDG: UN2735
IMDG, IATA-DGR: UN 2735

UN proper shipping name

TDG, IMDG, IATA-DGR: UN 2735, POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(Amines, polyethylenepoly-, triethylenetetramine fraction;
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine)

Transport hazard class

TDG: 8
IMDG: Class 8, Subrisk -
IATA-DGR: Class 8



Packing group

TDG, IMDG, IATA-DGR: III

Environmental hazards

Marine pollutant: no

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

Canada: Transportation of Dangerous Goods (TDG)

Special Provisions: 16
Explosive limit and limited quantity index: 5 L
Passenger carrying road or rail index: 5 L

Sea transport (IMDG)

EmS: F-A, S-B
Special Provisions: 223 274
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: -
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T7
Tank instructions - Provisions: TP1, TP28
Stowage and handling: Category A.
Segregation: SG35
Properties and observations: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. React violently with acids. Cause burns to skin, eyes and mucous membranes.

Marine pollutant: no
Segregation group: 18

Air transport (IATA)

Proper shipping name: UN 2735, POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(Amines, polyethylenepoly-, triethylenetetramine fraction;
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine)
Hazard label: Corrosive
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special Provisions: A3 A803
Emergency Response Guide-Code (ERG): 8L

15 Regulatory information

National regulations - Canada

N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling: Contains:
N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine
Amines, polyethylenepoly-, triethylenetetramine fraction

Revision date: 17/12/2025

Date of first version: 29/9/1994

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
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
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
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Sensitization - skin: Skin sensitisation
Skin Corrosion: Skin corrosion
TDG: Transportation of Dangerous Goods Regulation in Canada
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative

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.