



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 18/Apr/2018

Version: 2

Language: en-CA,US

Date of print: 23/May/2018

WEICON UW Hardener

Material number 104402

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1. Product and company identification

Product identifier

Trade name: WEICON UW Hardener

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

General use: Two-component epoxy resins.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – Canada (24h): Tel: +1 866 928 0789 (Toll free)

Transport:

TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: +1 866 928 0789 (Toll free)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: solid
Form: pasty
Color: cream-colored
Odor: sulfur-like
Classification: Sensitization - skin 1;

Hazard symbols:



Signal word:

Warning

Hazard statements:

May cause an allergic skin reaction.



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Precautionary statements:

Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see ' First aid ' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Dispose of contents/container to hazardous or special waste collection point.

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

Repeated exposure may cause skin dryness or cracking. Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Two-component epoxy resins

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 13463-67-7	Titanium dioxide	5 - 10 %	not applicable
CAS 14807-96-6	Talcum	1 - 5 %	not applicable
CAS 90-72-2	2,4,6-tris (Dimethylaminomethyl)phenol	< 5 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Skin Irritation 2. Eye Irritation 2A.
CAS 1477-55-0	m-Phenylenebis (methylamine)	< 3 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (inhalative). Skin Corrosion 1B. Sensitization - skin 1. Aquatic toxicity - chronic 3.
CAS 112-24-3	Triethylentetramine	< 1 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Skin Corrosion 1B. Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - chronic 3.



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4. First aid measures

- General information: Remove all contaminated clothes and footwear immediately unless stuck to skin.
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 if problems persist.
- Following skin contact: After contact with skin, wash immediately with soap and plenty of water.
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 call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction..

Information to physician

Treat symptomatically. Medical surveillance necessary for at least 48 hours.

5. Fire fighting measures

- Flash point/flash point range: Not applicable
- Auto-ignition temperature: not self-igniting
- Suitable extinguishing media: Extinguishing is to be in accordance with the surrounding fire.
- Extinguishing media which must not be used for safety reasons: Full water jet

Specific hazards arising from the chemical

Hazardous vapors may form during fires. In case of fire may be liberated:
Furthermore, there may develop: metal oxide smoke, nitrogen oxides (NO_x), sulphur oxides, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool exposed containers with water spray.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



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6. Accidental release measures

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

Environmental precautions: Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

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: 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. Do not breathe dust/fume/gas/mist/vapors/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. Work place should be equipped with a shower and an eye rinsing apparatus. Avoid the formation of aerosol.

Precautions against fire and explosion: Take care of general rules for industrial preventive fire protection.

Storage

Requirements for storerooms and containers: Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container. Protect from heat and direct sunlight. Storage temperature: 5 °C up to 25 °C. Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
13463-67-7	Titanium dioxide	Canada, Alberta: OEL 8 hour	10 mg/m ³
		Canada, BC: OEL TWA	10 mg/m ³
		Canada, BC: OEL TWA	3 mg/m ³ respirable fraction
		Canada, Québec: VEMP	10 mg/m ³ (inhalable fraction)
		USA: ACGIH: TWA	10 mg/m ³
		USA: OSHA: TWA	15 mg/m ³
14807-96-6	Talcum	Canada, Alberta: OEL 8 hour	2 mg/m ³ (respirable fraction)
		Canada, BC: OEL TWA	0.1 fibers/cm ³ (Containing asbestos fibres)
		Canada, BC: OEL TWA	2 mg/m ³ respirable fraction (Containing no asbestos fibres)
		Canada, Ontario: OEL TWA	2 fibers/cm ³
		Canada, Ontario: OEL TWA	2 mg/m ³ respirable fraction
		Canada, Québec: VEMP	3 mg/m ³ (respirable fraction)
		USA: ACGIH: TWA	2 mg/m ³ respirable fraction
		USA: NIOSH: TWA	2 mg/m ³
		USA: OSHA: TWA	20 mppcf Containing less than 1% quartz
1477-55-0	m-Phenylenebis (methylamine)	ACGIH: Ceiling	0.1 mg/m ³ (may be absorbed through the skin)
		Canada, Alberta: OEL Ceiling	1.3 mg/m ³ ; 0.1 ppm
		Canada, BC: OEL Ceiling	0.1 mg/m ³ (may be absorbed through the skin)
		Canada, Québec: Plafond	0.1 mg/m ³
		NIOSH: Ceiling	0.1 mg/m ³ (may be absorbed through the skin)
112-24-3	Triethylentetramine	Canada, Ontario: OEL TWA	3 mg/m ³ ; 0.5 ppm (may be absorbed through the 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: Nitrile rubber - Layer thickness: 0.4 mm.
Breakthrough time: > 60 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Avoid the formation of aerosol.

Wash hands thoroughly after handling.

Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: pasty Color: cream-colored
Odor:	sulfur-like
Odor threshold:	not determined
pH value:	not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	not determined
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 20 °C: approx. 1.4 g/cm ³
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	0.219 (2,4,6-tris(Dimethylaminomethyl)phenol) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected. 0.18 (m-Phenylenebis(methylamine)) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition when used properly.
Ignition temperature:	> 200 °C (estimated)

10. Stability and reactivity

Reactivity: Refer to subsection "Possibility of hazardous reactions".

Chemical stability: Stable under recommended storage conditions.



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Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid:

Keep away from heat sources, sparks and open flames.
Protect against direct sunlight.

Incompatible materials:

No data available

Hazardous decomposition products:

Metallic oxides, nitrogen oxides (NO_x), sulphur oxides, carbon monoxide and carbon dioxide

Thermal decomposition:

No decomposition when used properly.

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.

ATEmix (calculated): 2000 mg/kg < ATE ≤ 5000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): 2000 mg/kg < ATE ≤ 5000 mg/kg.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Minor irritation effect - does not require labeling.

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

Minor irritation effect - does not require labeling.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

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): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.



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Other information: Information about 2,4,6-tris(Dimethylaminomethyl)phenol:
LD50 Rat, oral: 1670 mg/kg
LD50 Rat, dermal: 1280 mg/kg
Information about m-Phenylenebis(methylamine)
LD50 Rat, oral: 930 mg/kg
Information about Talkum:
For carcinogenic effects:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Information about Titanium dioxide:
LD50 Rat, oral: > 5000 mg/kg
LC50 Rat, inhalative: > 6,8 mg/L/4h
NOAEL Rat, chronic oral toxicity: 3500 mg/kg
NOAEC Rat, chronic inhalation toxicity: 10 mg/m³
For carcinogenic effects:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed

Symptoms

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

12. Ecological information

Ecotoxicity

Aquatic toxicity: Information about 2,4,6-tris(Dimethylaminomethyl)phenol:
Fish toxicity:
LC50 Oncorhynchus mykiss: 180-240 mg/L/96h

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight = 0 g/L

General information:

Do not allow to enter into ground-water, surface water or drains.
Do not allow uncontrolled discharge of product into the environment.

13. Disposal considerations

Product

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



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Contaminated packaging

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

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: No dangerous good in sense of this transport regulation.

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: No dangerous good in sense of this transport regulation.

Sea transport (IMDG)

Proper shipping name: No dangerous good in sense of this transport regulation.

Marine pollutant: no

Air transport (IATA)

Proper shipping name: No dangerous good in sense of this transport regulation.

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Canada

No data available



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National regulations - U.S. Federal Regulations

Titanium dioxide:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0617
Talcum:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0584
2,4,6-tris(Dimethylaminomethyl)phenol:	TSCA Inventory: listed TSCA HPVC: not listed
m-Phenylenebis(methylamine):	TSCA: listed
Triethylentetramine:	TSCA Inventory: listed TSCA HPVC: not listed

National regulations - U.S. State Regulations

Titanium dioxide:	California Proposition 65: cancer Rhode Island HSL: listed
Talcum:	California Proposition 65 code: not listed Massachusetts Haz. Substance codes: 2,4 F5 Minnesota Haz. Substance: Codes: AO - Ratings: -- Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 2mg Wisconsin Hazardous Air Contaminant List (Appears on Table): A
m-Phenylenebis(methylamine):	Idaho Air Pollutant List: listed Massachusetts Haz. Substance Codes: 4 Minnesota Haz. Substance: listed Pennsylvania Haz. Substance Code: - Washington Air Contaminant: listed
Triethylentetramine:	California Proposition 65 code: - Massachusetts Haz. Substance codes: 6 Pennsylvania Haz. Substance code: -

16. Other information

Text for labeling:	Contains 5 - 10 % Titanium dioxide, 1 - 5 % Talcum, < 5 % 2,4,6-tris(Dimethylaminomethyl)phenol, < 3 % m-Phenylenebis(methylamine), < 1 % Triethylentetramine. Safety data sheet available on request.
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Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change:

Changes in section 2: Classification, labeling

General revision

Date of first version:

25/Jul/2017

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.