



SAFETY DATA SHEET

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

Revision date: Feb/2/2017
Version: 1
Language: en-US
Date of print: Feb/13/2017

Urethane Hardener 45

Material number 105102

Page: 1 of 7

1. Product and company identification

Product identifier

Trade name: Urethane Hardener 45

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

General use: Hardener for 2 component adhesive.
Restricted to professional users.

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 – USA (24h): Tel: ++1 202 464 2554

**Transport:
TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554**

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Color: yellowish
Odor: characteristic
Classification: Aquatic toxicity - chronic - Category 3;
Hazard statements: Harmful to aquatic life with long lasting effects.
Precautionary statements: Keep out of reach of children.
Avoid release to the environment.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

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



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Urethane Hardener 45

Material number 105102

Page: 2 of 7

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 38640-62-9	Bis(isopropyl)naphthalene	< 2.5 %	Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 106246-33-7	4,4'-Methylenbis(3-chlor-2,6-diethylanilin)	2.5 - 10 %	Aquatic toxicity - chronic - Category 4.

4. First aid measures

- General information: If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing.
- In case of inhalation: Provide fresh air. Seek medical attention.
- 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: Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Most important symptoms/effects, acute and delayed

No data available

Information to physician

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

5. Fire fighting measures

Flash point/flash point range:

> 392 °F (c.c.)

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

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

Extinguishing media which must not be used for safety reasons:

High power water jet

Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides (NO_x), halogen compounds, aromatic hydrocarbons, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

In case of fire and/or explosion do not breathe fumes.

Additional information:

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

6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Avoid contact with skin, eyes, and clothing. Do not breathe vapor or spray.

Wear appropriate protective equipment.



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Revision date: Feb/2/2017
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Page: 3 of 7

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

Methods for clean-up:

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid the formation of aerosol.
Avoid contact with skin and eyes. Do not breathe vapor or spray. Wear appropriate protective equipment.
Take off immediately all contaminated clothing.

Precautions against fire and explosion:

Usual measures for fire prevention.

Storage

Requirements for storerooms and containers:

Keep away from heat sources, sparks and open flames. Protect against direct sunlight.
Keep only in the original container in a cool, well-ventilated place away from food.
Opened containers shall be carefully closed and stored in upright position.
Protect from moisture contamination. Protect from frost.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with: Isocyanates.

Further details:

Stir up product before use.

8. Exposure controls / personal protection

Engineering controls

Provide adequate ventilation, and local exhaust as needed.
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: 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:

When vapors form, use respiratory protection.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

General hygiene considerations:

Avoid contact with the substance. Do not breathe vapor or spray. When using do not eat, drink or smoke.
Wash hands before breaks and after work. Take off immediately all contaminated clothing.



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Urethane Hardener 45

Material number 105102

Page:

4 of 7

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Color: yellowish
Odor:	characteristic
Odor threshold:	not determined
pH value:	No data available
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	> 392 °F (DIN 53171)
Flash point/flash point range:	> 392 °F (c.c.)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 68 °F: not determined 1 g/mL (ISO 2811)
Water solubility:	not resp. slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No data available
Viscosity, dynamic:	at 68 °F: 500 mPa*s (ISO 9371)
Explosive properties:	Product is not explosive.
Ignition temperature:	> 689 °F (DIN 51794)
Solvent content:	organic solvents 0.5 %
Solid content:	6.6 %

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Exothermic reaction with: Isocyanates; resin component
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight. Protect from moisture contamination. Protect from frost.
Incompatible materials:	Isocyanates
Hazardous decomposition products:	Nitrogen oxides (NO _x), halogen compounds, aromatic hydrocarbons, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available



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Urethane Hardener 45

Material number 105102

Page: 5 of 7

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: Based on available data, the classification criteria are not met.
Eye damage/irritation: Based on available data, the classification criteria are not met.
Sensitisation to the respiratory tract: Lack of data.
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: 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: Bis(isopropyl)naphthalene
Acute toxicity:
LD50 Rat, oral: > 4000 mg/kg/14d
NOAEL Rat, oral, long-term effects: 170 mg/kg
LC50 Rat, inhalative: > 5.6 mg/L/4h
LD50 Rat, dermal: > 4000 mg/kg
Information about: 4,4'-Methylenbis(3-chlor-2,6-diethylanilin)
Acute toxicity:
LD50 Rat, oral: > 4000 mg/kg (OECD 401)
LD50 Rat, dermal: > 2000 mg/kg (OECD 402)



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Urethane Hardener 45

Material number 105102

Page:

6 of 7

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about: bis(isopropyl)naphthalene
Daphnia toxicity:
NOEC Daphnia magna (Big water flea): 0.013 mg/L/21d (OECD 202, part 2)
EC 0: Daphnia magna (Big water flea): 0.16 mg/L/48h (DIN 38412, part 11)
LL50: Daphnia magna (Big water flea): 1.7 mg/L/48h (OECD 202, loading)
Algae toxicity:
EC 0: 0.15 mg/L/72h (OECD 201)
Fish toxicity:
LC 0: 0.5 mg/L/96h (OECD 203, nominal)
Information about: 4,4'-Methylenbis(3-chlor-2,6-diethylanilin)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 0.1 mg/L/48h (OECD 202)
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): > 7.4 mg/L/72h (OECD 201)
Fish toxicity:
LC50 Poecilia reticulata: > 1 mg/L/96h (OECD 203, nominal)
Bacterial toxicity:
EC50: 10 mg/L (OECD 209)

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

AOX reference: The product contains organically bound halogen. Thus it may add to the AOX value.

Volatile organic compounds (VOC):
0.51 % by weight

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

13. Disposal considerations

Product

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

Contaminated packaging

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

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no



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Urethane Hardener 45

Material number 105102

Page: 7 of 7

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

Bis(isopropyl)naphthalene:

TSCA Inventory: listed

TSCA HPVC: not listed

4,4'-Methylenbis(3-chlor-2,6-diethylanilin):

TSCA Inventory: listed; EPA flags P

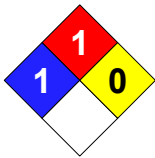
TSCA HPVC: not listed

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

Date of first version: Feb/2/2017

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.