



SAFETY DATA SHEET

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

Revision date: Feb/20/2017

Version: 1

Language: en-US

Date of print: Feb/23/2017

Weicon CBC Hardener

Material number 101102

Page: 1 of 11

1. Product and company identification

Product identifier

Trade name: Weicon CBC Hardener

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

General use: Hardener for 2 component adhesive (epoxy resin).
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 – 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: brown
Odor: characteristic
Classification: Flammable Liquid - Category 4; Skin Corrosion - Category 1B; Sensitization - skin - Category 1; Reproductive toxicant - Category 2; Aquatic toxicity - acute - Category 1; Aquatic toxicity - chronic - Category 1;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Combustible liquid.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility.
Very toxic to aquatic life with long lasting effects.



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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 dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water/soap.
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.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER/doctor.
Specific treatment (see ' First aid ' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use ... to extinguish.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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

Special danger of slipping by leaking/spilling product.
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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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 157707-73-8	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear, tetraethylenepentamine and triethylenetetramine	35 - 45 %	Skin Irritation - Category 2. Eye Damage - Category 1. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 186321-96-0	Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	23 - 30 %	Skin Irritation - Category 2. Eye Damage - Category 1. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 100-51-6	Benzyl alcohol	12 - 15 %	Acute Toxicity - oral - Category 4. Acute Toxicity - inhalative - Category 4. Eye Irritation - Category 2A.
CAS 112-57-2	3,6,9-Triazaundecamethylenediamine	4 - 6 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	4 - 6 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 1477-55-0	m-Phenylenebis(methylamine)	2 - 4 %	Acute Toxicity - oral - Category 4. Acute Toxicity - inhalative - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 80-05-7	4,4'-Isopropylidenediphenol	2 - 4 %	Eye Damage - Category 1. Sensitization - skin - Category 1. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - chronic - Category 2.
CAS 69-72-7	Salicylic acid	1 - 3 %	Acute Toxicity - oral - Category 4. Eye Damage - Category 1.
CAS 90-72-2	2,4,6-tris (Dimethylaminomethyl)phenol	1 - 3 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Eye Damage - Category 1. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 109-55-7	3-Dimethyl-amino-propylamine	1 - 3 %	Flammable Liquid - Category 3. Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1.



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4. First aid measures

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Remove all contaminated clothes and footwear immediately unless stuck to skin.
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.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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 seek the immediate attention of 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/effects, acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Headache, Nausea, respiratory complaints, vomiting.

Information to physician

Treat symptomatically. 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:	> 185 °F
Auto-ignition temperature:	not determined
Suitable extinguishing media:	Extinguishing is to be in accordance with the surrounding fire.
Extinguishing media which must not be used for safety reasons:	High power water jet

Specific hazards arising from the chemical

Combustible liquid. 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:	Heating will lead to pressure increase: Danger of bursting and explosion. 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.

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 away ignition sources. Keep unprotected people away.
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Environmental precautions:

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

Methods for clean-up:

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).
Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Leaking cans, cans with spillage, are to be segregated, sprayed to empty state and disposed of. Refer to section 13 (Waste removal)

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.

When handling large quantities, supply emergency spray. Keep unprotected people away. Obtain special instructions before use. Pregnant women should strictly avoid inhalation of the product or skin contact with the product.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

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.
Store containers in upright position. storage temperature: 41 °F up to 104 °F.
Protect from frost.

Hints on joint storage:

Do not store together with acids, alkalis, oxidizing agents or metals.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1477-55-0	m-Phenylenebis (methylamine)	ACGIH: Ceiling	0.1 mg/m ³ (May be absorbed through the skin.)
		NIOSH: Ceiling	0.1 mg/m ³ (May be absorbed through the skin.)

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.



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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: Fluororubber (Viton)
Layer thickness: 0.7 mm
Breakthrough time: 480 min
- 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:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
Wash hands thoroughly after handling.
When handling large quantities, supply emergency spray.
Obtain special instructions before use.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Color: brown
- Odor: characteristic
- Odor threshold: not determined
- pH value: No data available
- Melting point/freezing point: not determined
- Initial boiling point and boiling range: > 275 °F
- Flash point/flash point range: > 185 °F
- Evaporation rate: No data available
- Flammability: Combustible liquid.
- Explosion limits: No data available
- Vapor pressure: No data available
- Vapor density: No data available
- Density: approx. 1 g/mL
- Water solubility: partially miscible
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: not determined
- Thermal decomposition: No data available
- Explosive properties: Vapors may form explosive mixtures with air.
- Ignition temperature: > 392 °F (estimated)



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10. Stability and reactivity

Reactivity:	Combustible liquid. May be corrosive to metals.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Heating will lead to pressure increase: Danger of bursting and explosion. Reactions with strong acids, alkalis and oxidizing agents.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight. Protect from frost.
Incompatible materials:	Alkali (lye), acids, oxidizing agents, metals.
Hazardous decomposition products:	Toxic gases/vapours, smoke. Nitrogen oxides (NOx), halogen compounds, aromatic hydrocarbons, carbon monoxide and carbon dioxide.
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. ATEmix calculated: $2000 < ATE \leq 5000$ mg/kg. Acute toxicity (dermal): Based on available data, the classification criteria are not met. ATEmix calculated: > 5000 mg/kg. Acute toxicity (inhalative): Based on available data, the classification criteria are not met. ATEmix calculated: > 5 mg/L. (dusts, mist) Skin corrosion/irritation, eye damage/irritation: Skin Corrosion - Category 1B = Causes severe skin burns and eye damage. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Lack of data. Reproductive toxicity: Reproductive toxicant - Category 2 = Suspected of damaging fertility. 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.
Other information:	Further hazardous properties cannot be excluded.

Symptoms

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



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Very toxic to aquatic life with long lasting effects.
Information about Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine:
Algae toxicity:
ErC50: Pseudokirchneriella subcapitata (green algae): 0.186 mg/L/72h (OECD 201)
Daphnia toxicity:
EC50: Daphnia magna (Big water flea): 0.705 mg/L/48h (OECD 202)
Fish toxicity:
LC50: 1.86 mg/L/96h (OECD 203)
Bacterial toxicity:
EC50: Pseudomonas putida: 157.6 mg/L/3h (OECD 209)

Mobility in soil

No data available

Persistence and degradability

Further details: Biodegradability:
Information about Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine:
9 % (OECD 301 D). Not bio-degradable.

Additional ecological information

AOX reference: The product contains organically bound halogen. Thus it may add to the AOX value.
General information: Do not allow to enter into ground-water, surface water 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 empty containers with care. Incineration may cause explosion. Handle contaminated packages in the same way as the substance itself.



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14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN2735
Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(3-Aminomethyl-3,5,5-trimethylcyclohexylamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear, tetraethylenepentamine and triethylenetetramine)

Hazard class or Division: 8
Packing Group: II
Labels: 8
Symbols: G
Special provisions: B2, IB2, T11, TP1, TP27
Packaging – Exceptions: 154
Packaging – Non-bulk: 202
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 1 L
Quantity limitations – Cargo only: 30 L
Vessel stowage – Location: A
Vessel stowage – Other: 52



Sea transport (IMDG)

UN number: UN 2735
Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(3-Aminomethyl-3,5,5-trimethylcyclohexylamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear, tetraethylenepentamine and triethylenetetramine)

Class or division, Subsidiary risk: Class 8, Subrisk-
Packing Group: II
EmS: F-A, S-B
Special provisions: 274
Limited quantities: 1 L
Excepted quantities: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - Provisions: -
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T11
Tank instructions - Provisions: TP1, TP27
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: yes
Segregation group: 18



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Air transport (IATA)

UN/ID number: UN 2735
Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.
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Class or division, Subsidiary risk: Class 8
Packing Group: II
Hazard label: Corrosive
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y840 - Max. Net Qty/Pkg. 0.5 L
Passenger and Cargo Aircraft: Pack.Instr. 851 - Max. Net Qty/Pkg. 1 L
Cargo Aircraft only: Pack.Instr. 855 - Max. Net Qty/Pkg. 30 L
Special provisions: A3 A803
Emergency Response Guide-Code (ERG): 8L

15. Regulatory information

National regulations - U.S. Federal Regulations

Benzyl alcohol: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
SOCMI Chemical: yes
Other Environmental Laws:
RCRA Groundwater Monitoring: Methods 8270 / PQL 20

3,6,9-Triazaundecamethylenediamine: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
SOCMI Chemical: yes

3-Aminomethyl-3,5,5-trimethylcyclohexylamine: TSCA Inventory: listed
TSCA HPVC: not listed

m-Phenylenebis(methylamine): TSCA: listed

4,4'-Isopropylidenediphenol: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Hazardous Air Pollutants: yes
SOCMI Chemical: yes
Other Environmental Laws:
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

Salicylic acid: TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
SOCMI Chemical: yes

2,4,6-tris(Dimethylaminomethyl)phenol: TSCA Inventory: listed
TSCA HPVC: not listed

3-Dimethyl-amino-propylamine: TSCA Inventory: listed
TSCA HPVC: not listed



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National regulations - U.S. State Regulations

Benzyl alcohol:	Massachusetts Haz. Substance codes: 6 Pennsylvania Haz. Substance code: -
3,6,9-Triazaundecamethylenediamine:	Massachusetts Haz. Substance codes: 6 Pennsylvania Haz. Substance code: -
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
4,4'-Isopropylidenediphenol:	California Proposition 65 code: - Delaware Air Quality Management List: DRQ: 100 - RQ State: State requirement differs from Federal Massachusetts Haz. Substance codes: F9 New Jersey RTK Hazardous Substance: DOT: -- - Sub No.: 2388 - TPQ: - Pennsylvania Haz. Substance code: E California Proposition 65: female Rhode Island HSL: listed
3-Dimethyl-amino-propylamine:	Massachusetts Haz. Substance codes: 6 Pennsylvania Haz. Substance code: -

National regulations - Great Britain

Hazchem-Code: 2X

16. Other information

Text for labeling:

Contains 35 - 45 % Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear, tetraethylenepentamine and triethylenetetramine, 23 - 30 % Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine, 12 - 15 % Benzyl alcohol, 4 - 6 % 3,6,9-Triazaundecamethylenediamine, 4 - 6 % 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, 2 - 4 % m-Phenylenebis(methylamine), 2 - 4 % 4,4'-Isopropylidenediphenol, 1 - 3 % Salicylic acid, 1 - 3 % 2,4,6-tris(Dimethylaminomethyl)phenol, 1 - 3 % 3-Dimethyl-amino-propylamine. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)
Fire: 2 (Moderate)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 3 (Serious) - Chronic effects
Flammability: 2 (Moderate)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0
		X

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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.