



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 5/Aug/2016

Version: 2

Language: en-CA,US

Date of print: 11/Aug/2016

## Easy-Mix PE-PP 45 Hardener

Material number 106602

Page: 1 of 8

### 1. Product and company identification

#### Product identifier

Trade name: Easy-Mix PE-PP 45 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 – 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: Form: paste  
Color: white

Odor: weak

Classification: Acute Toxicity 4 (oral); Eye Damage 1; Respiratory Sensitizer 1; Sensitization - skin 1;  
Germ cell mutagenicity 2;

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Suspected of causing genetic defects.



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Precautionary statements: Obtain special instructions before use.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection.  
In case of inadequate ventilation wear respiratory protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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).  
Rinse mouth.  
If skin irritation or rash occurs: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
Wash contaminated clothing before reuse.  
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

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64265-57-2	2-Ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	20 - 40 %	Acute Toxicity 2 (inhalative). Eye Damage 1. Respiratory Sensitizer 1. Sensitization - skin 1. Germ cell mutagenicity 2.
CAS 223674-50-8	Boron-amine complex	5 - 20 %	Flammable Liquid 2. Acute Toxicity 4 (oral). Eye Irritation 2A. Sensitization - skin 1.
CAS 13463-67-7	Titanium dioxide	< 0.5 %	not applicable

Additional information: Contains plasticizer.

## 4. First aid measures

General information: Take off immediately all contaminated clothing. Seek medical advice.  
In case of inhalation: Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention.  
Following skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.  
Wash contaminated clothing before reuse. Consult a doctor if skin irritation persists.



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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 get medical attention.

### Most important symptoms and effects, both acute and delayed

Causes serious eye damage. May cause an allergic skin reaction. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

> 93.3 °C (c.c)

Auto-ignition temperature: not determined

Suitable extinguishing media:

Water fog, foam, dry extinguishing powder, Extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet

### Specific hazards arising from the chemical

Combustible. Do not expose to high temperature. Danger of bursting and explosion. In case of fire may be liberated: nitrogen oxides (NO<sub>x</sub>), hydrocarbons, aldehydes, 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:

Cool endangered containers with water jetspray. Contaminated fire-fighting water must be collected separately.

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

## 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Wear respiratory protection when in the presence of vapor, dust, and aerosols.

Do not breathe gas/vapor/spray. Do not breathe dust.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

In case of leakage, eliminate all ignition sources. Keep unprotected people away.

Avoid contact with skin and eyes.

Environmental precautions:

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

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.



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### 7. Handling and storage

#### Handling

Advices on safe handling: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed.

Measures to prevent aerosol and dust generation

Do not breathe gas/vapor/spray. Do not breathe dust. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapors form potentially explosive mixtures with air, which are heavier than air.

Air-Vapor mixture may travel great distances at floor level and lead to backflash when exposed to an ignition source.

#### Storage

Requirements for storerooms and containers:

Keep only in the original container in a cool, well-ventilated place.

Keep container tightly closed. Protect from heat and direct sunlight.

Handle and open container with care.

Hints on joint storage:

Keep away from strong acids, strong bases, strong oxidizing agents and amines.

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
13463-67-7	Titanium dioxide	Canada, Alberta: OEL 8 hour	10 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	10 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	3 mg/m <sup>3</sup> respirable fraction
		Canada, Québec: VEMP	10 mg/m <sup>3</sup> (inhalable fraction)
		USA: ACGIH: TWA	10 mg/m <sup>3</sup>
		USA: OSHA: TWA	15 mg/m <sup>3</sup>

#### 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: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Use filter type ABEK/P3 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.



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### General hygiene considerations:

Avoid contact with skin and eyes. Do not breathe gas/vapor/spray. Do not breathe dust. Work place should be equipped with a shower and an eye rinsing apparatus. Take off immediately all contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Form: paste Color: white
Odor:	weak
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	> 181 °C (1010 hPa)
Flash point/flash point range:	> 93.3 °C (c.c)
Evaporation rate:	No data available
Flammability:	not applicable
Explosion limits:	LEL (Lower Explosion Limit): not applicable UEL (Upper Explosive Limit): not applicable
Vapor pressure:	at 20 °C: <= 0.13 hPa
Vapor density:	No data available
Density:	1.05 - 1.09 g/mL
Water solubility:	slightly soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not determined
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	at 23 °C: 35000 - 65000 mPa*s
Explosive properties:	Do not expose to high temperature. Danger of bursting and explosion.
Ignition temperature:	not determined

## 10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with strong acids, strong bases, and strong oxidizing agents. Reacts with amines.
Conditions to avoid:	Protect from heat and direct sunlight.
Incompatible materials:	Strong bases, strong acids, strong oxidizing agents, amines
Hazardous decomposition products:	In case of fire may be liberated: nitrogen oxides (NOx), hydrocarbons, aldehydes, carbon monoxide and carbon dioxide.
Thermal decomposition:	No decomposition when used properly.



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## 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): Acute Toxicity 4 (oral) = Harmful if swallowed.  
Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Lack of data.  
Eye damage/irritation: Eye Damage 1 = Causes serious eye damage.  
Sensitisation to the respiratory tract: Respiratory Sensitizer 1 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.  
Germ cell mutagenicity/Genotoxicity: Germ cell mutagenicity 2 = Suspected of causing genetic defects.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
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: Information about 2-Ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate):  
LD50 Rat, oral: 3038 mg/kg  
LD50 Rabbit, dermal: >3000 mg/kg  
LC50 Rat, inhalative dust/mist: 0.252 mg/L/4h  
Information about Titanium dioxide:  
LD50 Rat, oral: >10000 mg/kg  
LD50 Rabbit, dermal: >10000 mg/kg  
LC50 Rat, inhalative dust/mist: >6.82 mg/L/4h  
For carcinogenic effects:  
IARC Rating: Group 2B  
OSHA Carcinogen: not listed  
NTP Rating: not listed

### Symptoms

In case of inhalation:  
Mucous membrane irritation, cough, sneeze, headache, hoarseness, sore throat.  
Breathing difficulty, wheezing, Thoracic oppression. May cause damage to organs.  
In case of ingestion: Gastrointestinal irritation, nausea, vomiting, diarrhea.  
After contact with skin: Reddening, oedema (swelling), itching, dry skin.  
After eye contact:  
Prolonged eye contact may damage the cornea. Eye contact may cause irritation, redness, tearing or blurry vision. Other symptoms: Burns, pain.

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### Mobility in soil

No data available



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### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):

65 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains. Do not allow uncontrolled discharge of product into the environment.

## 13. Disposal considerations

### Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

### USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

### Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

### Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

### Air transport (IATA)

Proper shipping name: Not restricted

### 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

2-Ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate):

Boron-amine complex:

Titanium dioxide:

TSCA Inventory: listed  
TSCA HPVC: not listed  
TSCA Inventory: not listed  
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

### National regulations - U.S. State Regulations

Titanium dioxide:

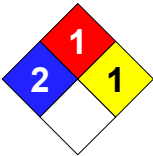
California Proposition 65: cancer  
Rhode Island HSL: listed

## 16. Other information

Text for labeling:

Contains 20 - 40 %  
2-Ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl  
bis(2-methylaziridine-1-propionate), 5 - 20 % Boron-amine complex, < 0.5 % Titanium  
dioxide. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:  
Health: 2 (Moderate)  
Fire: 1 (Slight)  
Reactivity: 1 (Slight)  
HMIS Version III Rating:  
Health: 2 (Moderate) - Chronic effects  
Flammability: 1 (Slight)  
Physical Hazard: 1 (Slight)  
Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		1
		X

Reason of change:

Changes in section 1: General revision

Date of first version:

19/Feb/2016

### 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.