



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 Resin

Material number 106601

Page: 1 of 8

1. Product and company identification

Product identifier

Trade name: Easy-Mix PE-PP 45 Resin

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

General use: Resin 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: Physical state at 20 °C and 101.3 kPa: liquid
Form: paste
Color: beige
Odor: characteristic
Classification: Skin Irritation 2; Eye Irritation 2A; Sensitization - skin 1;
Hazard symbols:



Signal word: **Warning**
Hazard statements: Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.



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Precautionary statements: Do not breathe vapors/dust/ aerosols.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
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.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing.
Wash contaminated clothing 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

see section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 2455-24-5	Tetrahydrofurfuryl methacrylate	30 - 70 %	Skin Irritation 2. Eye Irritation 2A.
CAS 688-84-6	2-Ethylhexyl methacrylate	10 - 20 %	Sensitization - skin 1. Aquatic toxicity - chronic 3.
CAS 20882-04-6	(2-((2-methyl-1-oxoallyl)oxy)ethyl)-hydrogen succinate	1 - 10 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1.
CAS 868-77-9	2-Hydroxyethyl methacrylate	< 1 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1.

4. First aid measures

General information: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash contaminated clothing before reuse.

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

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.

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. Rinse mouth with water. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Respiratory complaints, nausea, vomiting, drowsiness.



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Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 94 °C (2-Ethylhexyl methacrylate)

Auto-ignition temperature: not determined

Suitable extinguishing media:

Alcohol resistant foam, extinguishing powder, water spray jet, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet

Specific hazards arising from the chemical

Combustible. Hazardous vapors may form during fires.

In case of fire may be liberated: Nitrogen oxides (NOx), hydrogen cyanide (hydrocyanic acid), 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:

Cool endangered containers with water jetspray. 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:

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.

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.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid the formation of aerosol. Do not breathe gas/vapor/spray. Do not breathe dust.

Wear appropriate protective equipment. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

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.



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Hints on joint storage: Keep away from strong acids and strong oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

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: Respiratory protection in case of aerosol or vapor formation:
Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

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: Physical state at 20 °C and 101.3 kPa: liquid
Form: paste
Color: beige

Odor: characteristic
Odor threshold: not determined

pH value: not applicable

Melting point/freezing point: not determined

Initial boiling point and boiling range: > 110 °C (2-Ethylhexyl methacrylate)

Flash point/flash point range: > 94 °C (2-Ethylhexyl methacrylate)

Evaporation rate: No data available

Flammability: not applicable

Explosion limits: LEL (Lower Explosion Limit): not determined
UEL (Upper Explosive Limit): not determined

Vapor pressure: <= 0.13 hPa

Vapor density: No data available

Density: at 20 °C: 0.96 - 1.00 g/mL

Water solubility: practically insoluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: not determined

Thermal decomposition: No decomposition when used properly.

Viscosity, kinematic: 17000 - 36000 mPa*s



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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 and strong oxidizing agents.

Conditions to avoid: Protect from heat and direct sunlight.

Incompatible materials: Strong acids and strong oxidizing agents

Hazardous decomposition products:
In case of fire may be liberated: Nitrogen oxides (NO_x), hydrogen cyanide (hydrocyanic acid), hydrocarbons, 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): $2000 < ATE \leq 5000$ mg/kg.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.
Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.
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: 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 Tetrahydrofurfuryl methacrylate:
LD50 oral, estimated: 2000-5000 mg/kg
Information about 2-Ethylhexyl methacrylate:
LD50 Rat, oral: >2000 mg/kg
LD50 dermal, estimated: >5000 mg/kg
Information about (2-((2-methyl-1-oxoallyl)oxy)ethyl)-hydrogen succinate:
LD50 oral, estimated: 2000-5000 mg/kg
Information about 2-Hydroxyethyl methacrylate:
LD50 Rat, oral: 5564 mg/kg
LD50 Rabbit, dermal: >5000 mg/kg



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Symptoms

Respiratory complaints, nausea, vomiting, drowsiness.

In case of inhalation:

Mucous membrane irritation, cough, sneeze, headache, hoarseness, sore throat.

In case of ingestion: Gastrointestinal irritation, nausea, vomiting, diarrhea.

After contact with skin:

In rare cases the product can cause temporary erythema of the skin. Other symptoms:

Oedema (swelling), itching, dry skin.

After eye contact:

Eye contact may cause irritation, redness, tearing or blurry vision. Prolonged eye contact may damage the cornea.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Information about Tetrahydrofurfuryl methacrylate:

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 34.7 mg/L/96h

Information about 2-Ethylhexyl methacrylate:

Fish toxicity:

LC50 2.8 mg/L/63h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): dec4,6} mg/L/48h

NOEC Daphnia magna (Big water flea): 2.9 mg/L/21d

Algae toxicity: EC50 Green algae: 5.3 mg/L/72h

NOEC Green algae: 0.81 mg/L/72h

Information about 2-[(2-Methyl-1-oxoallyl)oxy]ethyl acetoacetate:

Fish toxicity:

LD50 Pimephales promelas (fathead minnow): 35 mg/L/96h

Daphnia toxicity:

LC50: 112 mg/L/96h

Information about (2-((2-methyl-1-oxoallyl)oxy)ethyl)-hydrogen succinate:

Fish toxicity:

LC50: >100 mg/L/96h (estimated)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 380 mg/L/48h (estimated)

NOEC Daphnia magna (Big water flea): 24.1 mg/L/21d (estimated)

Algae toxicity:

EC50 Green algae: 345 mg/L/72h (estimated)

NOEC Green algae: 160 mg/L/72h

Information about 2-Hydroxyethyl methacrylate:

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 227 mg/L/96h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 380 mg/L/48h

NOEC Daphnia magna (Big water flea): 24.1 mg/L/21d

Algae toxicity:

EC50 Green algae: 345 mg/L/72h

NOEC Green algae: 160 mg/L/72h

Mobility in soil

No data available



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Persistence and degradability

Further details: Biodegradability
Information about Tetrahydrofurfuryl methacrylate: 85.9 %/28 d
Information about 2-Ethylhexyl methacrylate: 88 %/28 d (OECD 301C)
Information about 2-[(2-Methyl-1-oxoallyl)oxy]ethyl acetoacetate: 88 %/28 d (OECD 301C)
Information about (2-((2-methyl-1-oxoallyl)oxy)ethyl)-hydrogen succinate: 78 %/14 d (OECD 301C)
Information about 2-Hydroxyethyl methacrylate: 95 %/14 d (OECD 301C)

Additional ecological information

Volatile organic compounds (VOC):
1 % by weight
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: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Uncontaminated packaging may be treated as household waste.

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

2-Ethylhexyl methacrylate:	TSCA Inventory: listed TSCA HPVC: not listed
(2-((2-methyl-1-oxoallyl)oxy)ethyl)-hydrogen succinate:	TSCA Inventory: listed TSCA HPVC: not listed
2-Hydroxyethyl methacrylate:	TSCA Inventory: listed TSCA HPVC: not listed

16. Other information

Text for labeling: Contains 30 - 70 % Tetrahydrofurfuryl methacrylate, 10 - 20 % 2-Ethylhexyl methacrylate, 1 - 10 % (2-((2-methyl-1-oxoallyl)oxy)ethyl)-hydrogen succinate, < 1 % 2-Hydroxyethyl methacrylate. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

Reason of change: Changes in section 1: General revision

Date of first version: 17/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.