



SAFETY DATA SHEET

Product: YC.1402US - CROSSLINKER FOR WB COATINGS

Revision: 04

Date: 2018/11/21

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1 - IDENTIFICATION

GHS Product identifier: YC.1402US - CROSSLINKER FOR WB COATINGS

Other means of
identification: YC.1402USRecommended use of the
chemical and restrictions
on use: Suitable for increasing physical and chemical resistance for water-based products.

Restrictions on use: There are not known restrictions on use of the product.

Supplier's details: Renner Wood Coatings

Address: 651, Michael Wylie Drive, Charlotte - NC - USA

Phone number(s): 1 704 527 9261

Emergency phone
number: 001 800 255 3924**2 - HAZARD IDENTIFICATION**Classification of the
substance or mixture: Eye Damage/Irritation - Category 1
Sensitization Skin - Category 1A
Germ Cell Mutagenicity - Category 2
Specific Target Organ Toxicity - Repeated Exposure - Category 2
Hazardous to the Aquatic Environment - Acute Hazard - Category 2
Hazardous to the Aquatic Environment - Chronic Hazard - Category 2Classification system
adopted: Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United
Nations.**GHS label elements, including precautionary statements**

Pictograms:



Signal word: DANGER

Hazard statement(s): H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H341 Suspected of causing genetic defects.
H373 May cause damage to kidneys through repeated or prolonged exposure if swallowed.
H411 Toxic to aquatic life with long lasting effects.Precautionary
statement(s): **PREVENTION:**P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or aerosol vapors.



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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

RESPONSE:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER or a doctor.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing. And wash it before reuse.

P391 Collect spillage.

STORAGE:

P405 Store locked up.

DISPOSAL:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do
not result in
classification:

It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Components contributing to the hazard: Polyfunctional aziridine crosslinker (CAS 64265-57-2): 75.000 - 100.000%

4 - FIRST-AID MEASURES

Routes of exposure

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Skin:	Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.
Eye:	Wash the eyes with sufficient amount of water immediately for several minutes, keeping the eyes opened. In case of use of contact lenses, remove them, if possible. Keep washing. Contact a doctor. Bring this SDS.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.



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Most important symptoms/effects, acute and delayed:	Irritating to eyes burning, tearing and pain. May cause pruritus and dermatitis. Repeated exposure may cause damage to kidneys.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected site.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Appropriate: Compatible with carbon dioxide (CO ₂), foam, water mist and powder Inappropriate: Water jet directly.
Specific hazards arising from the chemical:	The combustion or the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, in a fire or if heated, a pressure increase will occur and the container may expand and break up.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Avoid exposure to the product. If required, use personal protective equipment as described in Section 8.
For emergency responders:	Use protective equipment as described in Section 8.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material. For final destination, proceed pursuant to Section 13 of this SDS.

7 - HANDLING AND STORAGE

Precautions for safe handling

Safe handling of the substance or mixture:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Do not eat, drink or smoke while using this product.

Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	Use personal protective equipment as described in Section 8. Do not handle until all safety precautions have been read and understood.
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Adequate conditions: Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. Keep stored at room temperature not exceeding 35°C (95°F).

Packaging compatibilities: Plastic

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit: Not established.

Biological limit: Not established.

Other limits and values: Not established.

Appropriate engineering controls: Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses or face shield.

Skin protection: Safety shoes, pants and long sleeve cotton shirt with clenched fists for protection of whole body against chemical splash. Butyl rubber, nitrile rubber, latex, neoprene or PVC protective gloves.

Respiratory protection: Respiratory protective mask with filter for organic solvents.

Thermal hazards: Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Not available.

Odour: Not available.

Melting point/freezing point: Not available.

Boiling point or initial boiling point and boiling range: Not available.

Flammability: Not applicable.

Lower and upper explosion limit/flammability limit: Not available.

Flash point: 253°C - 487.4°F (closed cup)

Auto-ignition temperature: 345°C (653°F)

Decomposition temperature: 175°C (347°F)

pH: Not available

Kinematic viscosity: Not available.

Solubility: N. reacts with water.

Partition coefficient n-octanol/water (log value): Information regarding to:
-Polyfunctional aziridine crosslinker:

log K_{ow}: 1.40 (calculated)



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Vapour pressure:	Information regarding to: -Polyfunctional aziridine crosslinker: 0.01 kPa (653°F)
Density and/or relative density:	1.044 to 1.084 at 25°C (77°F)
Relative vapour density:	Not available
Particle characteristics:	Not available
Other information:	VOC: 0.00 g/L; VOC: 0.000 lb/US gal HAP: 0.00 g/L; HAP: 0.000 lb/US gal

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not expected under normal conditions of temperature and pressure.
Chemical stability:	Product is stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Reacts with water
Conditions to avoid:	Elevated temperatures. Contact with incompatible materials.
Incompatible material:	Acids and strong oxidizing agents.
Hazardous decomposition products:	There are not known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	It is not expected that the product presents acute toxicity.
Skin corrosion/irritation:	It is not expected that the product presents skin corrosion/irritation.
Serious eye damage/irritation:	Causes serious eye damage. with burning, tearing and pain.
Respiratory or skin sensitization:	May cause an allergic skin reaction with pruritus and dermatitis. It is not expected that the product presents sensitization respiratory.
Germ cell mutagenicity:	Suspected of causing genetic defects.
Carcinogenicity:	It is not expected that the product presents carcinogenicity.
Reproductive toxicity:	It is not expected that the product presents reproductive toxicity.
STOT - Single exposure:	It is not expected that the product presents specific target organ toxicity by single exposure.
STOT - Repeated exposure:	May cause damage to kidneys through repeated or prolonged exposure if swallowed.
Aspiration Hazard:	It is not expected that the product presents aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity:	Toxic to aquatic life with long lasting effects. Information regarding to: -Polyfunctional aziridine crosslinker: ErC ₅₀ (<i>Green algae</i> , 72h): 3.8 mg/L NOEC (<i>Green algae</i> , 72 hours): 0.92 mg/L
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Persistence and degradability:	It is expected that the product presents persistence and it is not considered readily biodegradable. Information regarding to: <u>-Polyfunctional aziridine crosslinker:</u> Degradation rate: 1% in 29 days.
Bioaccumulative potential:	Presents low bioaccumulative potencial in aquatic organisms. Information regarding to: <u>-Polyfunctional aziridine crosslinker:</u> log K _{ow} : 1.40
Mobility in soil:	Not determined.
Other adverse effects:	There are not known other environmental effects for this product.

13 - DISPOSAL CONSIDERATIONS**Disposal methods**

Disposal of this product, solutions and any by-products should all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Keep the product remains in its original and properly closed containers. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid disposal or spilled material and runoff and contact with soil, waterways, drains and sewers.

14 - TRANSPORT INFORMATION

Road:	<i>UN - "United Nations"</i> <i>Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations</i>
Rail:	<i>Convention concerning International Carriage by Rail (COTIF)</i> <i>Appendix C - Regulations concerning the International Carriage of Dangerous Goods by Rail - RID</i>
Sea:	<i>IMO - International Maritime Organization</i> <i>International Maritime Dangerous Goods Code (IMDG Code)</i>
Air:	<i>IATA - International Air Transport Association</i> <i>Dangerous Goods Regulation (DGR)</i>
UN number:	Not classified as hazardous to transport in different modals.
Special precautions for user:	There is no need of special precautions.
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC Code:	Consult regulations: - International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006. - International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.



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15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990;

International Organization for Standardization - ISO 11014:2009.

TSCA status: We certify that all the components of this product are listed on the TSCA Inventory.

DSL status: We certify that all the components of this product are listed on the DSL.

Prop.65: ⚠ WARNING! This product can expose to Propyleneimine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

SDS elaborated in November 2018.

Change control:

Version	Publication Date	Changes
04	2018/11/21	New SDS layout

Hazard classification of chemical:

Health: 3
Flammability: 1
Instability: 0
Specific: Probably not classified

Classification system adopted:

National Fire Protection Association: NFPA 704.

Hazard classification of chemical:

Health: 3*
Flammability: 1
Physical Hazard: 0
Personal Protection: G

Classification system adopted:

National Paint & Coatings Association: NPCA.



In accordance with Globally Harmonized System of
Classification and Labelling of Chemicals (GHS)-
Chapter 1.5 and Annex 4

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NFPA 704:



HMIS:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		G

Abbreviations:

CAS - *Chemical Abstracts Service*

VOC - *Volatile Organic Compound*

Bibliographic references:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). 6. rev. ed. New York: United Nations, 2015.