



SAFETY DATA SHEET

W/B Polyurethane Catalyst

1. PRODUCT AND COMPANY IDENTIFICATION

DATE ISSUED:	10/21/2020
SDS REF. No:	CW-4002

PRODUCT NAME: W/B Polyurethane Catalyst

PRODUCT CODE: CW-4002

SYNONYMS:

CAS NUMBER:

PRODUCT USE: Paint

MANUFACTURER:

CIC Coatings, LLC
2935 Almeta Ln

McKinney, TX,
877-258-8797

24 HR. EMERGENCY TELEPHONE NUMBER

ChemTel : (800)255-3924

2. HAZARDS IDENTIFICATION

GHS Classification:

Flammable liquid	Category 3
Acute Toxicity (inhalation)	Category 4
Acute Toxicity (dermal)	Category 4
Skin irritation	Category 2
Eye irritation	Category 1
Aspiration hazard	Category 1
Harmful to aquatic life with long lasting effects.	Category 3

Hazard Symbols:



Single word: Danger

Hazard statements:

Highly flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.
May be fatal if swallowed and enters airways.

Precautionary statements:

Prevention:

Use only in well ventilated area.
Control of exposure by mechanical ventilation in an unventilated or confined space.
Avoid breathing vapors and contact with skin and eyes.
Wear breathing apparatus/protective gloves/face protection.
Store in well-ventilated place.
Disposal must be in accordance with applicable federal, state, or local regulations.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

Other hazards: plant.
None Known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration (% wt)
Hexamethylene diisocyanate oligomers, Isocyanurate	28182-81-2	40-50%
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers	53880-05-0	30-40%
N-butyl acetate	123-86-4	20-30%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

Description of necessary first aid measures

Eye:

Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) while keeping the eyes wide open. If irritation persists, consult a doctor. Show this sheet to the doctor.

Skin:

Use appropriate protective equipment when treating a contaminated person. Immediately remove any clothing soiled by the product. Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation, ...) obtain medical attention. Place contaminated clothing in a sealed bag for disposal.

Ingestion:

NEVER attempt to induce vomiting. Rinse mouth out with water. If necessary seek medical advice. Show this sheet to the doctor.

Inhalation:

Move the person away from the contaminated area. Fresh air and rest. Seek medical treatment in case of complaints. Show this sheet to the doctor.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Foam, CO₂, Dry chemical, Water fog.

Special protective equipment and precautions for fire-fighters:

Flammable.

During combustion toxic vapors are released, Nitrogen oxides (NO_x) Oxides of carbon

Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Stay upwind.

Evacuate the personnel away from the fumes.

In case of fire close by: Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.

Do not breathe fumes.

Do NOT attempt to fight the fire without suitable protective equipment. If there is a fire close by and if packaging has not been damaged: Use suitable extinguishers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure:

Avoid contact with skin and eyes.

Do not breathe gas.

Do NOT approach from DOWNWIND.

Do NOT attempt to take action WITHOUT suitable protective equipment.

Self-contained breathing apparatus.

Full impermeable protective clothing and equipment.

Mark out the contaminated area with signs and prevent access to unauthorized personnel.

Environmental precautions:

Contain the spilled material by binding.

Do not allow product to reach sewage system or any water course.

Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Pump any free liquid into a closed but not sealed container to allow for the escape of any CO₂ that forms.

Sealing the container may lead to rupture as any contaminated isocyanate reacts.

Wash contaminated area with large amounts of water.

Recover the cleaning water for subsequent disposal.

Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/aspiration at the workplace.

Avoid contact with water or humidity.

Avoid any direct contact with the product.

Any measure to eliminate exposure should be considered. Comply with instructions for use (refer to technical sheet).

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Conditions for safe storage, including any incompatibilities:

Product must only be kept in the original packaging.

The floor of the depot should be impermeable.

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

Store only in the original receptacle.

Requirements to be met by storerooms and receptacles:

Product must only be kept in the original packaging. - Metallic drums. - Storage tank with a dry nitrogen blanket.

Suitable material for receptacles and pipes: Aluminium.

Suitable material for receptacles and pipes: steel or stainless steel.

Unsuitable material for receptacle: Copper.

Unsuitable material for receptacle: Polystyrene.

Unsuitable material for receptacle: Tin

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

Control parameters

• Components with limit values that require monitoring at the workplace:

The recommended limits SHOULD NOT be exceeded.

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements.

The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:

123-86-4 n-butyl acetate

PEL 710 mg/m³, 150 ppm

REL Short-term value: 950 mg/m³, 200 ppm

Long-term value: 710 mg/m³, 150 ppm

TLV Short-term value: 950 mg/m³, 200 ppm

Long-term value: 713 mg/m³, 150 ppm

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

REL Short-term value: 0.18 mg/m³, 0.02 ppm
Long-term value: 0.045 mg/m³, 0.005 ppm
Skin
TLV 0.045 mg/m³, 0.005 ppm

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate
TLV Short-term value: 1 mg/m³

Exposure controls

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Ensure good ventilation of the work station.
Shower or take a bath at the end of work.
Safety shower.
Eye wash.
Separate normal clothes from work-clothes.
Immediately remove all soiled and contaminated clothing.
Keep away from foodstuffs, beverages and feed.

Breathing equipment:

When using a spray-gun, wear: Self-contained breathing apparatus. In the event of insufficient ventilation: Self-contained breathing apparatus.

• **Protection of hands:**

Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves Rubber gloves

Protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required. The selection of gloves must take into account the extent and duration of use at the workstation.

Eye protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

• **Body protection:**

Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Clear

ODOR: aromatic petroleum odor

pH: n/a

BOILING POINT: >212 F

FREEZING POINT: -97 C

FLASH POINT: 104 F (closed cup)

VOLATILE ORGANIC COMPOUNDS: 314 G/L

(VOC Theoretical – As Packaged)

SOLUBILITY IN WATER: n/a

DENSITY (Lb/Gal): 8.70

EVAPORATION RATE: No further relevant information available

SPECIFIC GRAVITY: 1.045

10. STABILITY AND REACTIVITY

Reactivity:

Vapor is explosive when exposed to heat or flame

Chemical stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reaction

Has not been reported.

Condition to avoid:

Product is highly flammable – Keep away from sources of ignition. Avoid the higher temperatures. Keep away from open fire, heating elements and heat radiating surface and prevent from forming of the vapours mixtures with air in explosion limits.

Incompatible materials:

Heat, flame, strong oxidizers, nitric and sulfuric acids, chlorine, nitrogen tetroxide; will attack some forms of plastics, rubber, coatings.

Hazardous decomposition products:

On thermal decomposition (pyrolysis) releases: Toxic gases. Carbon dioxide (CO₂) Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

• **Information on toxicological effects**

• **Acute toxicity:**

• **LD/LC50 values:**

Harmful by inhalation. To comply with regulatory guidelines, the substance was tested in a form (i.e. specific particle size distribution) that is different from the form in which the substance is placed on the market and in which it can reasonably be expected to be used. The acute inhalation toxicity of the substance is due to its local action on the distal part of the respiratory tract. As, in the conditions in which the product can reasonably be expected to be used, only a small fraction of the aerosols formed may reach this part of the respiratory tract, a correction has been made to take this difference into consideration. Based on our Expert judgment, the classification Acute inhalation toxicity category 4 is justified. Not harmful if swallowed. Not harmful by skin contact.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

Oral LD50 > 2500 mg/kg (rat) (OECD 423 (female))

Dermal LD0 > 2000 mg/kg (rabbit) (OECD 402)

LD50 > 2000 mg/kg (rat) (OECD 402)

Inhalative LC50/4h 0.390 mg/l (rat) (OECD 403 (female))

53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers

Oral LD50 > 14000 mg/kg (rat) (ASCF, FDA)

Inhalative LC50/4h > 5.01 mg/l (rat)

LOAEC6h 153.4 mg/m³ (rat) (OECD TG 403)

NOAEC 50 mg/m³ (rat)

123-86-4 n-butyl acetate

Dermal LD50 > 5000 mg/kg (rbt)

Inhalative LC50/4h > 21.0 mg/l (rat) (OECD 403)

Acute effects:

EYE: Causes Serious Eye Irritation

SKIN: Causes skin irritation. Allergic reactions are possible.

INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs.

INGESTION: Harmful if swallowed.

• **Additional toxicological information:**

• **Carcinogenic categories**

• **OSHA-Ca (Occupational Safety & Health Administration)**

Not listed.

• **Sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitisation by skin contact.

• **Carcinogenicity:** Not considered to be carcinogen.

• **Mutagenicity:** Product is not considered to be genotoxic.

• **Reproductive toxicity:** Is not considered hazardous to the reproduction.

12. ECOLOGICAL INFORMATION

• **Toxicity**

• **Aquatic toxicity:**

According to the data on the components: Harmful to aquatic organisms tested.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

EC10/72h (static) 370 mg/l (Desmodesmus subspicatus) (EU C.3)

EL50/48h (static) 127 mg/l (Daphnia magna) (EU C.2)

ErC50(0-72h) (static) > 1000 mg/l (Desmodesmus subspicatus) (EU C.3)

LL0/96h (static) ≥ 82.8 mg/l (Brachydanio rerio) (EU C.1)

53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers

EC50/3h > 10000 mg/l (bacteria) (OECD 209 EU method C.11)
 EC50/48h > 3.36 mg/l (Daphnia magna) (OECD 202 EU METHOD C.2)
 EC50/72h > 3.1 mg/l (Desmodesmus subspicatus) (OECD 201 EU method C.3)
 LC50/96h (static) > 1.51 mg/l (fish)
 NOEC/72h 3.1 mg/l (Desmodesmus subspicatus) (OECD EU method C.3)

123-86-4 n-butyl acetate

EC50/72h 674.7 mg/l (Desmodesmus subspicatus)
 LC50/96h (static) 62 mg/l (Brachydanio rerio) 18 mg/l (fish) (Flow-through)

• **Degree of elimination:**

Hexamethylene diisocyanate oligomers :

Not biodegradable.

Oligomers of isophorone diisocyanate

Not biodegradable.

n-Butyl acetate :

Readily biodegradable.

• **Behavior in environmental systems:**

• **Bioaccumulative potential**

According to the data on the components: Not potentially bioaccumulable.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

BCF 3.2 (fish) (BCFWIN v. 2.17)

• **Mobility in soil**

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

Log Koc 7.8 (.) (PCKOC v1.66)

• **Ecotoxicological effects:**

• **Behavior in sewage processing plants:**

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

EC50/3h (static) 3828 mg/l (activated sludge) (OECD 209)

• **Other information:**

This preparation is classified as :

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects** No further relevant information available.



SAFETY DATA SHEET

W/B Polyurethane Catalyst

13. DISPOSAL CONSIDERATIONS

RECOMMENDATIONS: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

SAFE HANDLING: Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN Number	1866	1866	1866
Proper shipping Name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
Hazard Class	3	3	3
Packing Group	III	III	III
Marine Pollutant	NO	NO	NO

***** CIC Coatings, LLC verifies that the material was supplied and shipped in the proper packages in accordance with DOT and federal regulations that are applicable to the mode of transportation selected. The shipper must verify that the packaging supplied is acceptable to be re-shipped in per the federal regulations applicable to the mode of transportation for reshipment. Regulations may change depending on mode of transportation selected.*****

15. REGULATORY INFORMATION

- National legislation
- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara Section 312
- Fire Hazard – Yes
- Reactive Hazard - NO
- Release of Pressure - NO
- Acute Health Hazard - YES
- Chronic Health Hazard – YES
- Section 313 (Specific toxic chemical listings):

CERCLA RQ 5000 lbs for 123-86-4
822-06-0 hexamethylene-di-isocyanate
123-86-4 n-butyl acetate

• **Carcinogenic categories**

• **EPA (Environmental Protection Agency)**

Not listed.

• **IARC (International Agency for Research on Cancer)**

Not listed.

• **NTP (National Toxicology Program)**

Not listed.

• **Inventory status:**

• **Australian Inventory of Chemical Substances (AICS)**

All ingredients are listed.

• **Canadian Domestic Substance List (DSL)**

All ingredients are listed.

• **Canadian Non Domestic Substance List (NDSL)**

Not listed.

• **Chinese Chemical Inventory of Existing Chemical Substances (CIECS)**

All ingredients are listed.

• **European EINECS/ELINCS Listing**

All ingredients are listed.

• **Japan Existing and New chemical Substance List (ENCS)**

All ingredients are listed.

• **Korea Existing Chemical Inventory (KECI)**

All ingredients are listed.

• **Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

All ingredients are listed.

• **TSCA listing**

All ingredients are listed.

• **Other regulations, limitations and prohibitive regulations**

• **State of California, Proposition 65:**

Chemicals known to cause cancer:

Not listed.

• **Chemicals known to cause reproductive toxicity for females:**

Not listed.

• **Chemicals known to cause reproductive toxicity for males:**

Not listed.

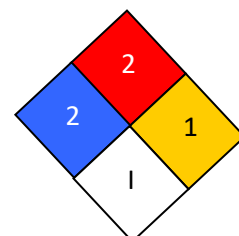
• **Chemicals known to cause developmental toxicity:**

Not listed.

16. OTHER INFORMATION

HMIS RATING	
Health :	2
Flammability :	2
Reactivity :	1
Personal Protection :	I

NFPA CODES



REVISION INDICATOR : No Data Available

MANUFACTURER DISCLAIMER: To the best of CIC Coatings, LLC knowledge, all information, recommendations, and suggestions appearing herein concerning this product are taken from raw material sources or based upon data believed to be reliable.

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CAS No.: Chemical Abstract Service Registry Number

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)

CPR: Controlled Product Regulations (Canada)

DOT: Department of Transportation (U.S.)

EPA: Environmental Protection Agency (U.S.)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HEPA: High-Efficiency Particulate Air

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods code

LPP: Limité Permissible Ponderado (Chile)

NIOSH: National Institute of Occupational Safety and Health (U.S.)

NFPA: National Fire Protection Association (US)

NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (U.S.)

PEL: Permissible Exposure Limit

SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit (15 minute Time Weighted Average)

STOT: Specific Target Organ Toxicity (GHS Classification)

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act (U.S.)

TWA: Time Weighted Average (exposure for 8-hour workday)

U.S.: United States

VOC: Volatile Organic Compounds

WHMIS: Canadian Workplace Hazardous Materials Information System