



SAFETY DATA SHEET

W/B Polyurethane Catalyst

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.



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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.

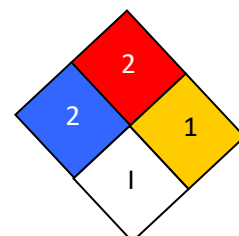
• **Chemicals known to cause developmental toxicity:**

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