

SAFETY DATA SHEET

GHS FORMAT

Date issued : 07/23/2024

SDS number : 1112

CHROMA/BOND 30 CATALYST 22.1OZ

1. Identification

Product identifier: CHROMA/BOND 30 CATALYST 22.1OZ**Product description:** Catalyst**Manufacturer / Supplier**

IKONICS

4832 Grand Ave.

Duluth, MN 55807

Alternate Emergency Phone: 800-328-4261**Customer Service:** 218-628-2217**E-Mail:** sds@ikonics.com**Web:** www.ikonics.com**Emergency telephone number (24 hour)**

CHEMTREC + 1 800-424-9300

2. Hazard identification

Classification of the substance or mixture**Health hazards:**

Eye Irritation, Category 2A

Respiratory Sensitization, Category 1

Target Organ Toxicity (Single exposure), Category 3

Skin Sensitization, Category 1

Skin Irritation, Category 2

Target Organ Toxicity (Repeated exposure), Category 1

Physical hazards:

Flammable Liquids, Category 2

Label elementsExclamation
markHealth
hazard

Flame

Signal word: DANGER**Hazard statement(s)**

H319: Causes serious eye irritation.

H225: Highly flammable liquid and vapour.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

H315: Causes skin irritation.

H332: Harmful if inhaled.

H372: Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Precautionary statement(s)**Prevention:**

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P285: In case of inadequate ventilation wear respiratory protection.
 P271: Use only outdoors or in a well-ventilated area.
 P272: Contaminated work clothing should not be allowed out of the workplace.

Response:

- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P370+P378: In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P362: Take off contaminated clothing.

Storage:

- P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

- P501: Dispose of contents/container in accordance to federal/state/local regulations.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Polymeric Isocyanates	30 - 40	9016-87-9
Acetic Acid Ethyl Ester	20 - 40	141-78-6
Methylene Bisphenyl Isocyanate	20 - 30	101-68-8
Diphenylmethane-2,4'-di-isocyanate	2 - 5	5873-54-1

4. First-aid measures

- Eye:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin: Wash off with soap and plenty of water. Consult a physician.
Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

5. Fire-fighting measures

- Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous combustion products: Not Available
Fire fighting equipment: Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous decomposition products: Not Available

6. Accidental release measures

- Small spill:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean surface thoroughly to remove residual contamination.
Large spill: Wear suitable protective equipment. Contain spill. Soak up with absorbent material and transfer to a container for disposal according to local/state/federal regulations.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. Wash thoroughly after handling.

Conditions for safe storage: Keep container tightly closed.

Shelf life: 24 months

8. Exposure controls/personal protection

Exposure controls

Control parameters				
Chemical name	Occupational exposure limit values			
	Type		ppm	mg/m ³
Acetic Acid Ethyl Ester	OSHA PEL	TWA	400	1400
	ACGIH TLV	TWA	400	1440
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Methylene Bisphenyl Isocyanate	ACGIH TLV	TWA	0.005	0.051

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment

Eye / face protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

Skin protection - hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

Skin protection - other: Apron recommended.

Occupational hygiene practices: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when handling this material: (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics areas with this material stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the restrooms. (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. Physical and chemical properties

Physical state: Liquid

Color: Brown

pH: Not Available

Freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash point: (50°F)

Evaporation rate (n-butyl acetate = 1): Not Available

Lower explosion limit / flammability limit: Not Available

Vapor pressure: Not Available

Relative vapor density: Not Available

Relative density: 1.124

Solubility: partial

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

Viscosity: Not Available

Pour point: Not Available

Percent volatiles: Not Available

VOC content: 336 g/L

10. Stability and reactivity

Reactivity: Yes

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Exposure to air. Exposure to moisture.

Hazardous decomposition products: Not Available

Incompatible materials: Water, amines, strong alkalis, alcohols

11. Toxicological information

Acute toxicity

Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Polymeric Isocyanates			0.49 mg/L [Rat] 4 h
Acetic Acid Ethyl Ester	> 4934 mg/kg	> 20000 mg/kg	> 22.5 mg/L
Methylene Bisphenyl Isocyanate	9200 mg/kg [Rat]		> 2.24 mg/L [rat] 1 h

Acute dermal toxicity LD₅₀: Not yet Determined

Acute oral toxicity LD₅₀: Not yet Determined

Acute inhalation toxicity LC₅₀: Not yet Determined

Serious eye damage / irritation: CAS # 101-68-8 Serious eye damage/eye irritation

Eyes - Rabbit

Result: Moderate eye irritation

Respiratory or skin sensitization: CAS # 101-68-8 Respiratory or skin sensitisation

In vivo assay - Guinea pig

Result: May cause sensitisation by inhalation.

Invivo assay - Mouse

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity: CAS # 101-68-8 Laboratory experiments have shown mutagenic effects.

Ames test S. typhimurium

Result: negative

Mutagenicity (micronucleus test) Rat - male

Result: negative

Carcinogenicity

IARC: CAS # 9016-87-9 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Isocyanic acid, polymethylenepolyphenylene ester)

CAS # 101-68-8 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diphenylmethane-4,4'- diisocyanate)

NTP: Not Listed

OSHA: Not Listed

Reproductive toxicity: CAS # 101-68-8 Reproductive toxicity - Rat - Inhalation Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system.

12. Ecological information

Aquatic toxicity, both acute and chronic

Notes: CAS # 101-68-8 Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 24 h

Bioaccumulative potential: Not Available

13. Disposal considerations

Disposal methods: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Empty container: Dispose of as unused product.

14. Transport information**USA Department of Transport Regulations (DOT)**

UN proper shipping name: Adhesives containing flammable liquid

UN number: 1133

Transport hazard class(es): 3

Packing group, if applicable: II



Hazard label:

ICAO / IATA - air

UN proper shipping name: Adhesives containing flammable liquid

UN number: 1133

Transport hazard class(es): 3

Packing group, if applicable: II



Hazard label:

Note: Passenger air max: 5L

15. Regulatory information**UNITED STATES****SARA Section 311/312 Hazard Categories**

311/312 Health hazards: FIRE HAZARD, ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Polymeric Isocyanates	30 - 40	9016-87-9
Methylene Bisphenyl Isocyanate	20 - 30	101-68-8

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status: None

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Acetic Acid Ethyl Ester	20 - 40	5,000
Methylene Bisphenyl Isocyanate	20 - 30	5,000

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.	TSCA section
Polymeric Isocyanates	9016-87-9	
Acetic Acid Ethyl Ester	141-78-6	12b,
Methylene Bisphenyl Isocyanate	101-68-8	
Diphenylmethane-2,4'-di-isocyanate	5873-54-1	

TSCA regulatory: All components of this product are listed on the TSCA Inventory.

Regulations

State regulations: CAS # 9016-87-9 Delaware Air Quality Management, Pennsylvania Right To Know Component, New Jersey Right To Know Component; CAS # 101-68-8 CA Hazardous Substance, Delaware Air Quality Management, Idaho Air Pollutant, Illinois Toxic Air Contaminant, Maine Hazardous Air Pollutant, Massachusetts Hazardous Substance, Minnesota Hazardous Substance, New York Hazardous Substance, Pennsylvania Hazardous Substance, Washington PELs for Air Contaminant, Wisconsin Hazardous Air Contaminant; CAS # 141-78-6 CA Hazardous Substance, Delaware Air Quality Management, Idaho Air Pollutant, Maine Hazardous Air Pollutant, Massachusetts Hazardous Substance, Minnesota Hazardous Substance, New York Hazardous Substance, North Carolina Toxic Air Contaminant, Pennsylvania Hazardous Substance, Washington PELs for Air Contaminant

CANADA**WHMIS Hazard Symbol and Classification**

Flammable
Liquid



Toxic

WHMIS Regulatory Status: Controlled Product

WHMIS Classification: B, D

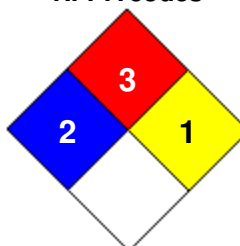
Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL): All components of this product are listed on the Domestic Substances List.

16. Other information

Date Prepared: 07/23/2024

HMIS rating

Health	<input type="checkbox"/>	2
Flammability	<input type="checkbox"/>	3
Physical hazard	<input type="checkbox"/>	1
Personal protection	<input checked="" type="checkbox"/>	X

NFPA codes

HMIS ratings notes: (X) - site specific

Manufacturer disclaimer: The information contained in the present sheet is based on our knowledge, on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.