

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: NANOCRYL® C 140 Chemical name: Preparation, consisting of acrylates and amorphous silicon dioxide

Other means of identification

None.

Recommended restrictions

Recommended use: Industrial use Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

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24-Hour Health	: +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency	800 681 9531 (CHEMTREC MEXICO)
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2. Hazard(s) identification

Hazard Classification	
Physical Hazards	
Flammable liquids	Category 4
Health Hazards	
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1

Label Elements

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Hazard Symbol:



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Signal Word:	Warning
Hazard Statement:	Combustible liquid. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Collect spillage.
Storage:	Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
lazard(s) not otherwise lassified (HNOC):	None.

3. Composition/information on ingredients

Chemical name:

Preparation, consisting of acrylates and amorphous silicon dioxide Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
hexamethylene diacrylate; hexane-1,6- diol diacrylate		13048-33-4	25 - <50%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.



4. First-aid measures

Description of necessary first-aid measures		
Gen	neral information:	Remove soiled or soaked clothing immediately
Inha	alation:	fresh air supply, consult a doctor if feeling unwell.
Skir	n Contact:	In case of contact with skin wash off with soap and water. If skin irritation persists, call a physician.
Eye	contact:	In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
Inge	estion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
	sonal Protection for First-aid ponders:	No data available.
Most i	important symptoms and effec	ts, both acute and delayed
Syn	nptoms:	Serious eye irritation skin irritation possible
Haz	ards:	No data available.
	ion of immediate medical atter atment:	tion and special treatment needed Treat symptomatically.
5. Fire	e-fighting measures	
Ge	eneral Fire Hazards:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
	Suitable (and unsuitable) extin	
	Suitable extinguishing media	
	Unsuitable extinguishing med	
	Special hazards arising from substance or mixture:	the In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide Under certain conditions of combustion traces of other toxic substances cannot be excluded
Special protective equipment and precautions for firefighters		
	Special fire fighting procedure	es: No specific precautions.
	Special protective equipment fighters:	for fire- Do not inhale explosion and/or combustion gases. Self- contained breathing apparatus.
6. Acc	idental release measures	
	Personal precautions, protect equipment and emergency procedures:	ive Use personal protective clothing.
	Accidental release measures:	No data available.
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Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.
7. Handling and storage	
Handling	
Technical measures (e.g. Local and general ventilation):	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary).Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.
Contact avoidance measures:	No data available.
Storage	
Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.Keep away from direct sunlight.Do not store together with amines. Do not store with acids or alkalies Do not store together with: Radical formers, reducing substances, heavy metal ionsDo not keep at temperatures below 10 °C. Maximum storage temperature: 30 °C
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls	No data available.
Individual protection measures, such as	personal protective equipment
Eye/face protection:	Safety glasses
Skin Protection Hand Protection:	Material: Butyl rubber. Break-through time: 480 min
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
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Hygiene measures:

Remove soiled or soaked clothing immediately. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Use skin protective preparation as preventive skin protection.

9. Physical and chemical properties

Information on basic physical and chemi Appearance	cal properties
Physical state:	liquid
Form:	liquid
Color:	yellowish
Odor:	Characteristic
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	> 212 °F/> 100 °C
Flammability:	not measured
Upper/lower limit on flammability or e	xplosive limits
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 149 °F/> 65 °C
Self-ignition:	not measured
Decomposition Temperature:	not measured
pH:	5 - 7 (100 g/l, 25 °C) in Water
Viscosity	
Dynamic viscosity:	not measured
Kinematic viscosity:	not measured
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n- octanol/water):	not measured
Vapor pressure:	< 1.3 hPa (68 °F/20 °C)
Relative density:	not measured
Density:	1.3 - 1.4 g/cm3 (68 °F/20 °C)
Bulk density:	No data available.
Relative vapor density: Particle characteristics	not measured
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.
Other information	

Explosive properties:

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not measured



Oxidizing properties:	not oxidizing
Minimum ignition temperature:	not measured
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	not measured

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions".
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
Conditions to avoid:	direct sunlight
Incompatible Materials:	Radical formers (e.g. peroxides), reducing substances and/or heavy metal ions Amines. alkalines acids
Hazardous Decomposition Products:	In the presence of radical component (e.g. peroxides), reducing agents and/or heavy metal compounds polymerisation with evolution of heat is possible.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral Product:	Not classified for acute toxicity based on available data.
Dermal Product:	LD 50 (ATEmix): > 5,000 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritation Product: No data available.	
Respiratory or Skin Sensitization Product:No data available.	
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Carcinogenicity Product:

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No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

No data available.

In vitro	
Product:	No data available.
Components: hexamethylene diacrylate; hexane-1,6- diol diacrylate	Ames test (OECD 471): negative gene mutation test (OECD 476): negative
In vivo Product: Reproductive toxicity	No data available.
Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	Not classified
Information on health hazards	
Other hazards Product:	No data available.

12. Ecological information

	otoxicity: Acute hazards to the aquatic o	environment:	
	Fish Product:	No data available.	
	Aquatic Invertebrates Product:	No data available.	
	Toxicity to Aquatic Plants Product:	No data available.	
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Components: hexamethylene diacrylate; hexane-1,6- diol diacrylate	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 1.5 mg/l (DIN 38412, T.9) EC 50 (Selenastrum capricornutum (green algae), 72 h): 1.09 mg/l (OECD 201) EC 50 (Selenastrum capricornutum (green algae), 72 h): 2.33 mg/l (OECD 201)	
Toxicity to microorganisms Product:	No data available.	
Chronic hazards to the aqua	tic environment:	
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product: Components: hexamethylene diacrylate; hexane-1,6- diol diacrylate	No data available. NOEC (Desmodesmus subspicatus (green algae), 72 h): Approximate 0.5	
	mg/l (DIN 38412, T.9) NOEC (Selenastrum capricornutum (green algae), 72 h): 0.9 mg/l (OECD 201)	
Toxicity to microorganisms Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential		
Bioconcentration Factor (BCF) Product:	No data available.	
Partition Coefficient n-octanol Product:	/ water (log Kow) Log Kow: not measured	
Mobility in soil:		
Product	No data available.	
Results of PBT and vPvB assessment:		
Product	No data available.	
Other adverse effects:		
Other hazards Product:	Do not allow to enter soil, waterways or waste water canal.	



13. Disposal considerations	
Disposal methods:	In accordance with local authority regulations, take to special waste incineration plant
Contaminated Packaging:	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code Marine pollutant Remarks	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hexanediol diacrylate, 1,6-) 9 III 9 171 no FOR USA ONLY: In packagings > 450 L this Product must be classified, placarded, marked and shipped as Combustible Liquid in the USA.
International Regulations	
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hexanediol diacrylate, 1,6-) 9 III 9MI 964
(passenger aircraft) IMDG-Code UN number or ID number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexanediol diacrylate, 1,6-) 9 III 9 F-A, S-F yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated guantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

CYCLOHEXANE METHANOL HYDROQUINONE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Hazards Not Otherwise Classified (HNOC)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Chemical Identity HYDROQUINONE

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

CYCLOHEXANE

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

Inventory Status:

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Not in compliance with the inventory.	



16.Other information, including date of preparation or last revision

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

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Version #:	1.3
Further Information:	none
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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