

Revision Date 08/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name : 1,3-Diisopropylcarbodiimide [DIC]

: RC8120 Product Number

Advanced ChemTech Brand

CAS-No. 693-13-0

Relevant identified uses of the substance or mixture and uses advised against 1.2 Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Advanced ChemTech

5609 Fern Valley Rd, Louisville, KY 40228 USA

: +1 833-317-5620 Telephone : +1 502-968-1000 Fax

: +1 800-424-9300 Chemtrec 1.4 Emergency telephone number

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: 2.1

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 2), H330
Serious eye damage (Category 1), H318
Respiratory sensitisation (Category 1), H334 Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements:

Pictogram







Signal word Danger

Hazard statement(s) H226 Flammable liquid and vapour. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eve damage.

H330 Fatal if inhaled.

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

H335 May cause respiratory irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. P264

P271 Use only outdoors or in a well-ventilated area.

P272

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

Wear protective gloves/ eye protection/ face protection. P280

Wear respiratory protection. P284

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P304 + P340 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P305 + P351 + P338 + P310

present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/

physician.

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. P342 + P311

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up. Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances 3.1

Svnonvms Formula C7H14N2 Molecular Weight : 126.20 g/mole CAS-No. : 693-13-0



Components	Classification	Concentration
1,3-Diisopropylcarbodiimide		
	Flam. Liq. 3; Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1;	
	Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H226, H315,	
	H317, H318, H330, H334, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

- **4.2** Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed: No data available

5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media
 - Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NOx) Flash back possible over considerable distance.
- **5.3** Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.
- **5.4** Further information: Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, protective equipment, and emergency procedure
 - Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.
- **6.2** Environmental precautions: Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections: For disposal see section 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas. Moisture sensitive. Storage class (TRGS 510): Flammable liquids
- 7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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a) Appearance	Clear colorless to light yellow liquid
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	no data available
I) Vapor density	no data available
m) Relative density	no data available
n) Water solubility	no data available



o) Partition coefficient: n- octanol/water

p) Auto-ignition temperature

q) Decomposition temperature

Reactivity: No data available

r) Viscosity s) Explosive properties

t) Oxidizing properties

no data available no data available no data available no data available

no data available no data available No data available

9.2 Other safety information:

10. STABILITY AND REACTIVITY

10.2 Chemical stability: Exposure to moisture Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Heat, flames and sparks

Incompatible materials: Oxidizing agents, Acids 10.5

10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: No data available

Inhalation: LC50 Inhalation - Rat - 4 h - 0.105 mg/l

Dermal: No data available

LD50 Intravenous - Mouse - 36 mg/kg Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: May cause allergic respiratory and skin reactions

Germ cell mutagenicity: Ames test Result: negative

Carcinogenicity:

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed IARC:

human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: FF2175000 Damage to the eyes., Nausea, Headache, Vomiting, Causes severe corneal edema. Temporary blindness has been reported., Symptoms may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

Toxicity: No data available 12.1

12.2 Persistence and degradability: No data available

Bioaccumulative potential: No data available 12.3

12.4 Mobility in soil: No data available Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.5

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2929 Class: 6.1 (3) Packing group: II

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (1,3-Diisopropylcarbodiimide [DIC])

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 2929 Packing group: II EMS-No: F-E, S-D Class: 6.1 (3)

Proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (1,3-Diisopropylcarbodiimide [DIC])

IATA

UN number: 2929 Class: 6.1 (3) Packing group: II

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. ((1,3-Diisopropylcarbodiimide [DIC]))

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

CAS-No. 1,3-Dissopropylcarbodiimide Revision Date

693-13-0

New Jersey Right to Know Components

CAS-No. Revision Date 1,3-Dissopropylcarbodiimide

693-13-0

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute toxicity Serious eye damage Eye Dam. Flam. Liq. Flammable liquids H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317

May cause an allergic skin reaction. Causes serious eye damage. H318

Fatal if inhaled. H330

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

H335 Resp. Sens. Skin Irrit. Respiratory sensitisation

Skin irritation Skin Sens. Skin sensitisation

STOT SE Specific target organ toxicity - single exposure

HMIS Rating

Health hazard: 4 Chronic Health Hazard: Flammability: 0 Physical Hazard 0 NFPA Rating Health hazard: 4 Fire Hazard: 0 Reactivity Hazard: 0

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.