

Safety Data Sheet

#18761695 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
N,N'-Diisopropylcarbodiimide (DIC)	693-13-0	(CH₃)₂CHN=C=NCH(CH₃)₂	10	16 Jul 2026

SECTION 1

Identification

Product name	N,N'-Diisopropylcarbodiimide (DIC)
CAS number	693-13-0
Chemical formula	(CH ₃) ₂ CHN=C=NCH(CH ₃) ₂
Molecular weight	126.20
SMILES	C(=NC(C)C)=NC(C)C
EC / EINECS number	211-743-7
Recommended use & restrictions	<i>Not applicable</i>
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

**DANGER**

CODE	HAZARD STATEMENT
H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H400	Very toxic to aquatic life
CODE	PRECAUTIONARY STATEMENT
P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	Wear respiratory protection
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Other hazards (e.g. PBT / vPvB, not classified) <i>Not applicable</i>	

SECTION 3

Composition / information on ingredients

Purity / concentration *Not applicable*Impurities / stabilising additives *Not applicable*

SECTION 4

First-aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Contact a physician if discomfort continues.
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Do not induce vomiting. Get medical advice/attention if you feel unwell.
Symptoms / effects & medical attention	<i>Not applicable</i>

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam, carbon dioxide, dry powder or water fog
Unsuitable extinguishing media	None known
Special hazards	<i>Not applicable</i>
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus.

SECTION 6

Accidental release measures

Personal precautions & PPE	Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid discharge into drains, water courses or onto the ground. Risk of explosion.
Containment & clean-up methods	Absorb spillage with a suitable absorbent material. Cover drains.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Conditions for safe storage (incompatibilities)	Store in a dry place. Store in a closed container. Store under inert gas. Moisture sensitive.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.
Respiratory protection	Full-face respirator Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	0.815 g/mL DERIVED FROM: LITERATURE
Flash point	31 °C DERIVED FROM: LITERATURE
Acidity	Neutral DERIVED FROM: LITERATURE
Appearance / physical state	Liquid DERIVED FROM: LITERATURE
Colour	Colourless DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	145-148°C DERIVED FROM: LITERATURE
Boiling point	<i>Not applicable</i>
Solubility (water)	<i>No data available</i>
pH	<i>Not applicable</i>
Vapour pressure	<i>Not applicable</i>
Partition coefficient (log Pow)	<i>Not applicable</i>
Auto-ignition / decomposition temp	<i>Not applicable</i>

SECTION 10

Stability & reactivity

Chemical stability / reactivity	<i>Not applicable</i>
Conditions to avoid	Avoid moisture. Avoid excessive heat for prolonged periods
Incompatible materials	<i>Not applicable</i>
Hazardous decomposition products	<i>Not applicable</i>

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LC50 Inhalation - Rat - 4 h - 0.1 mg/l - vapour (lit.) LD50 Intravenous - Mouse - 36 mg/kg (lit.)
Skin corrosion / irritation	Causes skin irritation
Eye corrosion / irritation	<i>Not applicable</i>
Respiratory / skin sensitisation	May cause an allergic skin reaction. Inhalation may cause difficulty breathing and asthma-like symptoms.
Carcinogenicity	Based on available data, the classification criteria are not met
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	STOT- Single Exposure; Cat. 3: Respiratory system
Aspiration hazard	Based on available data, the classification criteria are not met
Endocrine disruptors	<i>Not applicable</i>

SECTION 12

Ecological information

Aquatic toxicity	LC50 = 0.91 mg/L 48h (Daphnia magna) (lit.)
Persistence & degradability	<i>Not applicable</i>
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	This substance/mixture does not meet the PBT criteria of REACH Annex XIII. This substance/mixture does not meet the vPvB criteria of REACH Annex XIII

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of in accordance with local/national regulations. Do not empty into drains. Send to a licensed waste-disposal contractor
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SECTION 14

Transport information

UN number	UN3384
Proper shipping name	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S.
Class	6.1 (3)
Packing group	I
Transport category	1
Tunnel code	(C/D)
Packing instruction (ADR)	P602
Packing instruction (IMDG)	P602
Environmental hazards	<i>No data available</i>
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice



SECTION 15

Regulatory information

REACH code	Y110
UFI code	<i>Not applicable</i>
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	<i>Not applicable</i>

SECTION 16

Other information

Revision notes / other information	<i>Not applicable</i>
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