

Safety Data Sheet

according to UK REACH Regulation

N,N'-Diisopropylcarbodiimide

Revision date: 23.11.2018

Product code: RL-1015

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

N,N'-Diisopropylcarbodiimide

Further trade names

N,N'-methanetetraylbis(1-methylethylamine)

DIC

1,3-diisopropylcarbodiimide

Diisopropylcarbodiimide

N,N'-Di(Propan-2-yl)methanediimine

N,N'-Diisopropylcarbodiimid

N,N'-Methanetetraylbis(1-methylethylamine)

Diisopropylmethanediimine

Abbreviation: DIC
REACH Registration Number: 01-2120754999-28-XXXX
CAS No: 693-13-0
EC No: 211-743-7

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemical. Manufacture of the substance

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: Iris Biotech GmbH
Street: Adalbert-Zoellner-Straße 1
Place: D-95615 Marktredwitz, Germany
Post-office box: 568
D-95605 Marktredwitz, Germany
Telephone: +49 9231 97121 0
Telefax: +49 9231 97121 99
e-mail: info@iris-biotech.de
Contact person: Compliance Department
Telephone: +49 9231 97121 0
e-mail: sds@iris-biotech.de
Internet: www.iris-biotech.de
Responsible Department: Only available during office hours.

1.4. Emergency telephone number:

+49 (0)89 19240 (POISON CENTER Munich: 24 h)

Further Information

Emergency telephone: 24 h

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

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Hazardous to the aquatic environment: Aquatic Acute 1
 Hazardous to the aquatic environment: Aquatic Chronic 1
 Hazard Statements:
 Flammable liquid and vapour.
 Fatal if inhaled.
 Causes skin irritation.
 Causes serious eye damage.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 May cause respiratory irritation.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

2.2. Label elements
GB CLP Regulation
Signal word: Danger

Pictograms:

Hazard statements

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.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284	Wear respiratory protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container to an approved disposal site.

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Additional advice on labelling

Warning - substance not yet tested completely.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients
3.1. Substances
Chemical characterization

N,N'-methanetetraylbis(1-methylethylamine)

 Sum formula: C₇H₁₄N₂

Molecular weight: 126,20 g/mol

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
693-13-0	N,N'-Diisopropylcarbodiimide	<= 100 %
	211-743-7	
	01-2120754999-28-XXXX	
	Flam. Liq. 3, Acute Tox. 2, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H226 H330 H315 H318 H334 H317 H335 H400 H410	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
693-13-0	211-743-7	N,N'-Diisopropylcarbodiimide	<= 100 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,13 mg/l (dusts or mists); dermal: Data lacking; oral: Data lacking	

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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After ingestion

Rinse mouth immediately and drink plenty of water. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

May produce an allergic reaction. May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂). Sand.

Unsuitable extinguishing media

Water. High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Usual measures for fire prevention.

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear personal protection equipment.

Remove all sources of ignition.

Vapours are heavier than air. Vapours can form explosive mixtures with air.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Take up mechanically, placing in appropriate containers for disposal.

Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7

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Personal protection equipment: see section 8

Disposal: see section 13 Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

Keep away from sources of ignition - No smoking.

Take action to prevent static discharges.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air. Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Handle and store contents under inert gas. Protect from moisture. Protect from light!

Containers which are opened carefully and kept upright to prevent leakage.

storage temperature: +2°C - +8°C

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Suitable eye protection: goggles. Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN

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166(EU).

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Handling with gloves that meet the EU Directive 89/686/EEC and the standard EN 374, in a departure from this policy.

Glove material: nitrile rubber, glove thickness: 0.40 mm Breakthrough time:> 30 min

Skin protection

Wear suitable protective clothing. Combinaison complète de protection contre les produits chimiques, Le type d'équipement de protection doit être sélectionné en fonction de la concentration et de la quantité de la substance dangereuse. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid, clear
Colour:	colourless/ light yellow
Odour:	stinging

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	145-148 °C
Sublimation point:	not determined
Softening point:	not determined
Flash point:	31 °C

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

No data available

Lower explosion limits:	No data available
Upper explosion limits:	No data available

Self-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

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Oxidizing properties

No data available

pH-Value:

No data available

Viscosity / dynamic:

No data available

Viscosity / kinematic:

No data available

Flow time:

No data available

Water solubility:

No data available

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

No data available

Vapour pressure:
(at 25 °C)

6,8 hPa

Density (at 20 °C):

0,815 g/cm³

Bulk density:

not applicable

Relative vapour density:

No data available

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion:

Sustaining combustion

Other safety characteristics

Solvent separation test:

No data available

Solid content:

not determined

Evaporation rate:

No data available

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

Flammable.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

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

Protect from moisture.

Keep away from heat.

Protect from light!

10.5. Incompatible materials

Oxidizing agents, strong., Acid.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).**Further information**

In case of fire: See chapter 5.

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SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in GB CLP Regulation
Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Fatal if inhaled.

LD50 intravenous - Mouse: 36 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
693-13-0	N,N'-Diisopropylcarbodiimide				
	oral	Data lacking			
	dermal	Data lacking			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation (4 h) aerosol	LC50 0,13 mg/l	Rat		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (N,N'-Diisopropylcarbodiimide)

May cause an allergic skin reaction. (N,N'-Diisopropylcarbodiimide)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

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

STOT-single exposure

May cause respiratory irritation. (N,N'-Diisopropylcarbodiimide)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Additional information on tests

Ames test negative.

Practical experience

No data available

11.2. Information on other hazards
Other information

Serious eye damage/eye irritation, Nausea, Headache. vomiting. Corneal opacity. Risk of blindness!

Symptoms may be delayed.

Further information

RTECS: FF2175000

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

SECTION 12: Ecological information

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12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
693-13-0	N,N'-Diisopropylcarbodiimide					
	Aquatic toxicity	Data lacking				

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
693-13-0	N,N'-Diisopropylcarbodiimide	ca. 4,11

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.7. Other adverse effects

Warning - substance not yet tested completely.

Further information

 Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
 Discharge into the environment must be avoided.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

 Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.
 Consult the appropriate local waste disposal expert about waste disposal.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information
Land transport (ADR/RID)
14.1. UN number:

UN 2929

14.2. UN proper shipping name:

 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
 (N,N'-Diisopropylcarbodiimide)

14.3. Transport hazard class(es):

6.1

14.4. Packing group:

I

Hazard label:

6.1+3



Classification code:

TF1

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Special Provisions: 274 315
 Limited quantity: 0
 Excepted quantity: E5
 Transport category: 1
 Hazard No: 663
 Tunnel restriction code: C/D

Inland waterways transport (ADN)

14.1. UN number: UN 2929
14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
 (N,N'-Diisopropylcarbodiimide)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: I
 Hazard label: 6.1+3



Classification code: TF1
 Special Provisions: 274 315 802
 Limited quantity: 0
 Excepted quantity: E5

Marine transport (IMDG)

14.1. UN number: UN 2929
14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
 (N,N'-Diisopropylcarbodiimide)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: I
 Hazard label: 6.1+3



Special Provisions: 274, 315
 Limited quantity: 0
 Excepted quantity: E5
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2929
14.2. UN proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
 (N,N'-Diisopropylcarbodiimide)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: I
 Hazard label: 6.1+3



Special Provisions: A4 A137
 Limited quantity Passenger: Forbidden
 Passenger LQ: Forbidden
 Excepted quantity: E5
 IATA-packing instructions - Passenger: 652

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IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	658
IATA-max. quantity - Cargo:	30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

Warning: Combustible liquid. Toxic.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC):	100 % (815 g/l)
2004/42/EC (VOC):	100 % (815 g/l)
Information according to 2012/18/EU (SEVESO III):	H2 ACUTE TOXIC
Additional information:	P5c, E1

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	3 - highly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

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Relevant H and EUH statements (number and full text)

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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Warning - substance not yet tested completely.

The product is intended for research, analysis and scientific education.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.