

Diisopropyl azodicarboxylate

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Diisopropyl azodicarboxylate

Chemical Formula C8H14N2O4 CAS No. 2446-83-5 EC No. 219-502-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)

Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Supplier

Company Identification Bond Chemicals Ltd

Address of Supplier Cinnamon House Cinnamon Park

Crab Lane Warrington

09:00 - 18:00

Postal code WA20XP Telephone: 01925661750

E-mail info@bondchemicals.co.uk

Office hours

1.4 Emergency telephone number

Emergency Phone No. 0203 394 9841 **OHES Environmental** Contact

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2: Causes skin irritation.

Eye Irrit. 2 :Causes serious eye irritation. STOT SE 3 :May cause respiratory irritation.

STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Diisopropyl azodicarboxylate

Hazard Pictogram(s)



GHS08





Signal Word(s) Warning

H315: Causes skin irritation. Hazard Statement(s)

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P273: Avoid release to the environment.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

None known.

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2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
diisopropyl azodicarboxylate	2446-83-5	219-502-8	<= 100	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 2 H373 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09

Contains no non-classified vPvB substances or substances with a Union workplace exposure limit. For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

Skin Contact Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get

medical advice/attention. Specific treatment (see Medical Advice on this label). Get

medical advice/attention if you feel unwell.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If

eye irritation persists: Get medical advice/attention.

Ingestion Get medical advice/attention if you feel unwell. Do not induce vomiting. Wash mouth

out with water.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Call a POISON

CENTER/doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours, including carbon

oxides and nitrogen oxides (NOx).

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Ensure full personal protection (including respiratory

protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the

appropriate regulatory body. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth, or any suitable adsorbent material. Contain spillages with sand, earth, or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and

watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container. Store in a dry area. Store protected from light.

Storage temperature Keep refrigerated below 4 °C.

Storage life Stable under recommended storage conditions.

7.3 Specific end use(s)

Laboratory chemicals, manufacture of substances

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing

facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN166).

Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374).

(in)

Respiratory protection A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards Decomposes violently at temperatures at or above 100 °C.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the

appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid.

Colour Orange

Odour Not known.

Melting point/freezing point Not known.

Boiling point or initial boiling point and 75 °C

boiling range

Flammability

Lower and upper explosion limit

Flash Point

Auto-ignition temperature

Decomposition Temperature

pH

Not known.

Not known.

Not known.

Not known.

Not known.

Solubility Solubility (Water) : Not known.

Solubility (Other): soluble in most common organic solvents or (log Not known.

Partition coefficient n-octanol/water (log

value)

Vapour pressure Not known.

Density and/or relative density Density (g/ml): 1.0270 g/cm³

Relative vapour density Not known. Particle characteristics Not known.

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9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Light, excess heat, temperatures above 100 °C.

10.5 Incompatible materials

Alcohols, oxidizing agents, strong bases.

10.6 Hazardous decomposition products

Nitrogen oxides, carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion Not classified.

Acute toxicity - Skin Contact Not classified.

Acute toxicity - Inhalation Not classified.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitization data
Respiratory sensitization data
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Lactation
Not classified.
Not classified.
Not classified.
Not classified.
Not classified.
Not classified.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified.

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates
Toxicity - Fish
Toxicity - Algae
Toxicity - Sediment Compartment
Toxicity - Terrestrial Compartment
Toxicity - Terrestrial Compartment
Toxicity - Terrestrial Compartment
Toxicity - Terrestrial Compartment
Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state, or national legislation. Send to a licensed recycler, reclaimer, or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

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13.2 Additional Information

Disposal should be in accordance with local, state, or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

UN No. 3082

14.2 UN proper shipping name

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 9 ADR Classification Code M6

274 335 375 601 **Special Provisions**

Limited Quantities 5 L **Excepted Quantities** E1 **Emergency Action Code** •3Z

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages PP1 MP19 Mixed Packing Instructions for Packages Packing Instructions for Portable Tanks T4 Special Provisions for Portable Tanks TP1 TP29 Tank Code for Tanks **LGBV**

Special Provisions for Tanks

Vehicle for Tank Carriage AT **ADR Transport Category** 3 Tunnel Restriction Code Special Provisions for Carriage -V12

Packages

Special Provisions for Carriage - Bulk

Special Provisions for Carriage - Loading, CV13

Unloading and Handling Special Provisions for Carriage -

Operation ADR HIN 90 **IMDG**

IMDG Class Special Provisions

274 335 375 601 Limited Quantities 5 L **Excepted Quantities** E1

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages PP1 Packing Instructions for Portable Tanks T4 TP1 TP29 Special Provisions for Portable Tanks IMDG EMS F-A S-F Stowage and Handling Category A

Segregation Marine Pollutant ICAO/IATA

IATA Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

964

Excepted Quantities F1 Passenger and Cargo Aircraft Limited Y964

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 30Kg G

Quantities Max net Qty

Passenger and Cargo Aircraft Packing Instructions Passenger and Cargo Aircraft Max net 450L

Qty Cargo Aircraft Packing Instructions 964 Cargo Aircraft Max net Qty 450L

Special Provisions A97, A158 A197

Emergency Response Guidebook (ERG) 9L

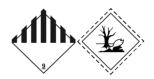
Code Labels

9 Labels

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14.4 Packing group

Packing group

14.5 Environmental hazards

Environmental hazards

Classified as a Marine Pollutant.

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14.6 Special precautions for user

Special precautions for user Not known.

14.7 Maritime transport in bulk according to IMO instruments

No information available

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very

High Concern for Authorisation

REACH: ANNEX XIV list of substances

s Not listed

Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the manufacture, placing on the market and

use of certain dangerous substances,

diisopropyl azodicarboxylate (2446-83-5)

mixtures and articles

Community Rolling Action Plan (CoRAP) Not listed Regulation (EC) N° 850/2004 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the

European Parliament and of the Council

concerning the export and import of hazardous chemicals

National regulations

Other

15.2 Chemical Safety Assessment

Not known.

Not listed

Not listed

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS08



GHS07



GHS09

Hazard classification Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Eye Irrit. 2 : Serious eye damage/irritation, Category 2

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s) H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

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Acronyms

SAFETY DATA SHEET

Date of Issue: 30-04-2021

Precautionary Statement(s)

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P273: Avoid release to the environment.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.

ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Goods by Road

ATE: Acute Toxicity Estimate CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures DNEL: Derived No Effect Level EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP) data used to compile the SDS

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