

Creation Date 19-Feb-2010

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Revision Number 5

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

Product Identifier

Product Description: Azodicarbonamide
Reach Registration Number 01-2119493056-35
Cat No. 105160000; 105160025; 105160050; 105165000
Synonyms 1,1'-Azobisformamide

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Respiratory Sensitization	Category 1
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s)

E - Explosive

Xn - Harmful

R-phrases(s)

R 2 - Risk of explosion by shock, friction, fire or other sources of ignition

R42 - May cause sensitization by inhalation

Label Elements



Signal Word

Danger

SECTION 2. HAZARDS IDENTIFICATION**Hazard Statements**

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

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	DSD Classification - 67/548/EEC	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Azodicarbonamide 123-77-3	EEC No. 204-650-8	>95	123-77-3	E; R2 R42	Resp. Sens. 1 (H334)	01-2119493056-35

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES**Description of first aid measures****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Ingestion

Do not induce vomiting. Obtain medical attention.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Notes to Physician

Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing media****Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Flammable. Risk of explosion if heated under confinement. Containers may explode when heated.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Use personal protective equipment. Avoid dust formation.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Remove all sources of ignition. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperature not exceeding 50°C. Flammables area. Keep away from heat and sources of ignition.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Component Azodicarbonamide

European Union	The United Kingdom	France	Belgium	Spain
	STEL: 3.0 mg/m ³ 15 min TWA: 1.0 mg/m ³ 8 hr			

Component Azodicarbonamide

Italy	Germany	Portugal	The Netherlands	Finland
				TWA: 0.5 mg/m ³ 8 tunteina

Component Azodicarbonamide

Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
	TWA: 1 mg/m ³ 8 satima. STEL: 3 mg/m ³ 15 minutama.	TWA: 1 mg/m ³ 8 hr. STEL: 3 mg/m ³ 15 min		

Component Azodicarbonamide

Russia	Slovak Republic	Slovenia	Sweden	Turkey
	TWA: 1 mg/m ³			

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas Use explosion-proof electrical/ventilating/lighting/equipment Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment**Eye Protection**

Safety glasses with side-shields

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Solid

Appearance

Yellow-orange

Odor

odorless

pH

No information available.

Boiling Point/Range

No information available.

Melting Point/Range

195 - 202°C / 383 - 395.6°F

Decomposition temperature

225 °C

Flash Point

No information available.

Autoignition Temperature

No information available.

Water Solubility

Soluble in hot water

Molecular Formula

C2 H4 N4 O2

Molecular Weight

116.08

SECTION 10. STABILITY AND REACTIVITY**Reactivity****Chemical Stability**

Stable under normal conditions.

Possibility of Hazardous Reactions**Hazardous Polymerization**

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing..

Conditions to Avoid

Avoid dust formation, Incompatible products, Excess heat, Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials

Reducing agents, Acids, alkaline, Heavy metals.

Hazardous Decomposition Products

Nitrogen oxides (NOx).

SECTION 11. TOXICOLOGICAL INFORMATION**Information on Toxicological Effects**

SECTION 11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Component Information****Component**

Azodicarbonamide

LD50 Oral	LD50 Dermal	LC50 Inhalation
6400 mg/kg (Rat)	500 mg/kg (Rat)	

Chronic Toxicity**Carcinogenicity**

There are no known carcinogenic chemicals in this product

Sensitization

May cause sensitization by inhalation

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

Respiratory system Liver Kidney

Other Adverse Effects

See actual entry in RTECS for complete information

Endocrine Disruptor Information

None known

SECTION 12. ECOLOGICAL INFORMATION**Toxicity****Ecotoxicity effects**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Azodicarbonamide				EC50: 11 mg/L 48h

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Component	log Pow
Azodicarbonamide	-1.7

Mobility in soil

No information available.

Results of PBT and vPvB assessment**Other adverse effects**

No information available

SECTION 13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION**IMDG/IMO**

UN-No UN3242
Hazard Class 4.1
Packing Group II
Proper Shipping Name Azodicarbonamide

ADR

UN-No UN3242
Hazard Class 4.1
Packing Group II
Proper Shipping Name Azodicarbonamide

IATA

UN-No UN3242
Hazard Class 4.1
Proper Shipping Name Azodicarbonamide , FORBIDDEN FOR IATA TRANSPORT

SECTION 15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Azodicarbonamide	204-650-8	-		X	X	-	X	X	X	X	X

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment**SECTION 16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R 2 - Risk of explosion by shock, friction, fire or other sources of ignition

R42 - May cause sensitization by inhalation

Revision Date

22-Apr-2013

Revision Summary

SECTION 16. OTHER INFORMATION

Reason for revision (M)SDS sections updated, 1, 3.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet