

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>sales@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Azodicarbonamide(AC-7000F) HS Code: 29270000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Azodicarbonamide

Qingdao YLSCH Industry&Trade Co.,Ltd

Supplier Room 501,2-3 Unit. No.8,Zhengzhou Road,

Qingdao, China.

TEL: +86 18661665800

Emergency telephone +86 18661665800
Intended use Blowing Agent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name Azodicarbonamide

CAS NO. 123-77-3

Chemical description Pale yellow fine powder

TSCA NO. none

EINECS NO. 204-650-8

Other information $C_2H_4N_4O_2$

3. HAZARDS IDENTIFICATION

Hazard class and label elements of the product according to GHS(the sixth revised edition):

DANGER

GHS Hazard Class

Flammable Solids Category 1
Sensitization-Respiratory Category 1

GHS Label Elements

Pictogram

Signal Word

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Hazard Statements

H228 Flammable solid

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

Precautionary Statements

Prevention

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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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
Response	
P304+P340	If inhaled:Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms:Call a poisomcenter/doctor.
Storage	Not applicable
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

4. FIRST AID MEASURES

Description of First Aid Measures

General Advice	immediate medical attention is required. Snow	tinis salety data sheet(SDS) to
General Advice		

the doctor in attendance.

Eye Contact Rinse thoroughly with pienty of water for at least 15 minutes and consult a

physician if feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty

of water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately.

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use

Inhalation mouth to mouth resuscitation if victim ingested or inhaled the substance. If not

breathing, give artificial respiration and consult a physician immediately.

Protecting of First-Aiders Ensure that medical personnel are aware of the substance involved. Take

precautions to protect themselves and prevent spread of contamination.

Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

Symptoms may be delayed.



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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.

Unsuitable Extinguishing MediaDo not use a solid water stream as it may scatter or spread fire.

Specific Hazards Arising from the Substance or Mixture

Will form explosive mixtures with air.

Detonation may occur from heavy impact or excessive heating.

Flammable solid which burns and propagates flame easily, even when partly wetted with water.

May burn fiercely.

Any source of ignition, i.e. friction, heat, sparks or flame, may cause fire or explosion.

Containers may explode when heated.

Fire exposed containers may vent contents through pressure relief valves.

May expansion or decompose explosively when heated or involved in fire.

Advice for Firefighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Fight fire from a safe distance, with adequate cover.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning Up

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

Adhered or collected material should be promptly disposed of, in accordance with appropriate lawsand regulations.

Remove all sources of ignition. Use spark proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for Handling

To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should begrounded.

Use explosion proof equipment.

Handling is performed in a well ventilated place.



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Wear suitable protective equipment.

Avoid contact with skin and eyes.

Keep away from heat/sparks/open flames/ hot surfaces.

Take precautionary measures against static discharges.

Precautions for Storage

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/ hot surfaces.

Store away from incompatible materials and foodstuff containers.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value -Short Term	
Component		ppm	mg/m³	ppm	mg/m³
Azodicarbonamide	United Kingdom	-	1	-	3
123-77-3	Ireland	-	1	-	3

Biological Limit Values

No information available

Monitoring Methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessmentof exposure to

chemical and biological agents.

GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air(Series standard).

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

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

Set up emergency exit and necessary risk- elimination area.

Personal Protection Equipment

Eye Protection

Tightly fitig safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.

1 standard.

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-



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purpose combination (US) ortype AXBEK (EN 14387) respirator cartridges.

Skin And Body Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow powder	Odor	/
Odor Threshold	1	рН	/
Melting Point/Freezing Point	225 ℃	Initial Boiling Point and Boiling Range	1
Flash Point	1	Evaporation Rate	1
Flammability	1	Upper/lower explosive limits	1
Vapor Pressure(MPa)		Relative Vapour Density(Air= 1)	
Relative Density(Water=1)	1.65	Solubility	Insoluble in water
N-Octanol/Water Partition Coefficient	1	Auto-Ignition Temperature	205 ℃
Decomposition Temperatur	1	Kinematic Vicosity (mm/s)	1
Particle characteristics	1		

10. STABILITY AND REACTIVITY

Depotivity	Contact with incompatible substances can cause decomposition or otherch	
Reactivity	emical reactions.	
Chemical Stability	Stable under proper operation and storage conditions.	
Possibility of Hazardous Reactions	No information available.	
Conditions to Avoid	Incompatible materials, heat, flame and spark.	
Incompatible Materials	No information available.	
Hazardous Decomposition	Under normal conditions of storage and use, hazardous decompositionprod	
products	ucts should not be produced.	

11.TOXICOLOGICAL INFORMATION

Acute Toxicity					
Component	CAS No.	LD ₅₀ (Oral)	LD₅₀(Dermal)	LC₅₀(Inhalation, 4h)	
Azodicarbonamide	123-77-3	> 6400mg/kg(Rat)	> 500mg/kg(Rat)	1	
Skin Corrosion/Irritation		No information available.			
Serious Eye Damage/Iritation		No information available.			
Skin Sensitization		No information available.			
Desnivetow, Consistration		May cause allery or asthma symptoms or breathing difficulties if inhaled			
Respiratory Sensitization		(Category1)(Azodicarbonamide)			
Germ Cell Mutagenicity		No information available.			



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ID	CAS NO.	Component	IARC	NTP
1	123-77-3	Azodicarbonamide	1	1
Reproductive	e Toxicity	No information available.		
Reproductive Toxicity (Additional)		No information available.		
STOT-Single	Exposure	No information available		
STOT-Repea	ted Exposure	No information available.		
Aspiration Hazard		No information available.		

12. ECOLOGICAL INFORMATION

Acute Aquatic Toxicity	No information available.
Chronic Aquatic Toxicity	No information available.
Others	
Persistence and Degradability	No information available.
BioaccumulativePotential	No information available.
Mobility in Soil	No information available.
Results of PBT and vPvB Assessment	No information available.

13. DISPOSAL CONSIDERATIONS

Waste Chemicals	Before disposal should refer to the relevant national and local laws and
waste Chemicais	regulation. Recommend the use of incineration disposal.
	Containers may still present chemical hazard when empty. Keep away
Contaminated Packaging Disposal Recommendations	from hotand ignition source of fire. Return to supplier for recycling if
	possible.Refer to section 13.1and 13.2.

14.TRANSPORT INFORMATION

Transporting Label



Marine pollutantNONEUN Number3242

UN Proper Shipping Name AZODICARBONAMIDE

Transport Hazard Class 4.1



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Transport Subsidiary Hazard Class NONE
Packing Group II

15. REGULATORY INFORMATION

International Chemical Inventory

COMPONENT EIENCS TSCA DSL IECSC NZIoC PICCS KECI AICS ENCS

Azodicarbonamide

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances.

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

[KECI] Existing and Evaluated Chemical Substances.

[AICS] Australia Inventory of Chemical Substances.

[ENCS] Existing And New Chemical Substances.

NOTE

"✓" Indicates that the substance included in the regulations.

16. ADDITIONAL INFORMATION

Creation Date18,OCT 2019Revision Date18,OCT 2019

Reason for Revision

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The dataincluded was derived from international authoritative database and provided by the enterprise. Otherinformation was based on the prese nt state of our knowledge. We try to ensure the correctness of allinformation. However, due to the diversity of information s ources and the limitations of our knowledge, this document is only for user's reference. Users should make their independe nt judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

[&]quot;X" That no data or included in the regulations.