

MIT-IVY INDUSTRY CO., LTD.

Revision number: 3

Revision date: 2024.07.10 Page 1 of 5 Revision date: 2024.07.10

SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Company: Address:

Triethylenetetramine MIT-IVY INDUSTRY CO., LTD 2-1402, OFFICE BUILDING 2, COMMERCIAL INNER STREET AND OFFICE 1, SHIMAO PLAZE YUNLONG DISTRICT XUZHOUJIANGSU, CHINA 221100

Responsible Department: Telephone: e-mail:

Sales Department +86-17363307174 info@mit-ivy.com

2. HAZARDS IDENTIFICATION
Classification of the substance or mixture
PHYSICAL HAZARDS
HEALTH HAZARDS
Acute toxicity (Oral)
Acute toxicity (Dermal)
Skin corrosion/irritation
Serious eye damage/eye irritation
Skin sensitization
ENVIRONMENTAL HAZARDS
Acute aquatic hazard
Long-term aquatic hazard
Label elements
Distances and second second star

Pictograms or hazard symbols

Signal word Hazard statements

Precautionary statements [Prevention]

[Response]

Not classified

Category 5 Category 3 Category 1B Category 1 Category 1

Category 3 Category 3

Danger May be harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage May cause an allergic skin reaction Harmful to aquatic life Harmful to aquatic life with long lasting effects

Do not breathe dusts or mists. Avoid release to the environment. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

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		Revision number: 3 Revision date: 2024.07.10IF IN EYES: Ri	Revision date: 2024.07.10	Page 2 of 5
		minutes. Remove contact lenses, if p		
		Immediately call a POISON CENTER		
		Call a POISON CENTER or doctor if y	ou feel unwell.	
	[Storage]	Store locked up.		
	[Disposal]	Dispose of contents and container in	accordance with local, regional, i	national
		regulations.		
3	COMPOSITION/INFORMAT	ION ON INGREDIENTS		
0.	Substance/mixture:	Substance		
	Components:	Triethylenetetramine		
	Percent:	>60.0%(GC)		
	CAS RN:	112-24-3		
	Synonyms:	N,N'-Di(2-aminoethyl)ethylenediamine		
	Chemical Formula:	C6 H18 N4		
٨	FIRST AID MEASURES			
4.	Inhalation:	Remove victim to fresh air and keep	at rest in a position comfortable f	or breathing.
		Immediately call a POISON CENTER		g-
	Skin contact:	Remove/Take off immediately all con		
		of soap and water. Immediately call a		
	Eye contact:	Rinse cautiously with water for sever		•
		and easy to do. Continue rinsing.Imme	diately call a POISON CENTER	lor
	Ingestion	doctor/physician.	or doctor/physician Dinos mouth	
	Ingestion:	Immediately call a POISON CENTER induce vomiting.	or doctor/physician. Rinse mout	n. Do NOT
		induce vorming.		
	Protection of first-aiders:	A rescuer should wear personal protect	tive equipment, such as rubber	gloves and
		air-tight goggles.		
_		2		
5.	FIRE-FIGHTING MEASURE Suitable extinguishing	ס Dry chemical, foam, water in large am	ounts, carbon dioxide	
	media:	Dry chemical, loan, water in large and		
		n Take care as it may decompose upon	combustion or in high temperatu	ures to
	the chemical:	generate poisonous fume.	5 1	
	Precautions for firefighters:	Fire-extinguishing work is done from the	ne windward and the suitable	
		fire-extinguishing method according to		
		Uninvolved persons should evacuate t		the
	• • • • • •	surroundings: Remove movable conta		
		t When extinguishing fire, be sure to we	ar personal protective equipmer	nt
	for firefighters:			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be
emergency procedures:	controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment and cleaning up:	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). 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 laws and regulations.

	Revision date: 2024.07.10
7. HANDLING AND STORAGE	
Precautions for safe handling	
Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective
	equipment. Prevent generation of vapour or mist. Wash hands and face
	thoroughly after handling.
	Use a closed system if possible. Use a ventilation, local exhaust if vapour or
	aerosol will be generated.
Advice on safe handling:	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, incl	
incompatibilities	<u></u>
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store under inert gas.
	Store locked up.
	Store away from incompatible materials such as oxidizing agents.
	Air-sensitive
Packaging material:	Comply with laws.
8. EXPOSURE CONTROLS / F	PERSONAL PROTECTION
Engineering controls:	Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipme	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA),
	supplied air respirator, etc. Use respirators approved under appropriate
	government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.
9. PHYSICAL AND CHEMICAI	_ PROPERTIES
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	266°C
Flash point:	143°C
Flammability or explosive	
limits:	
Lower:	No data available
Upper:	No data available
Relative density:	0.98
Solubility(ies):	
[Water]	Miscible
[Other solvents]	
Miscible:	Ether, Alcohols
Log Pow:	-2.25
Autoignition temperature:	338°C
10. STABILITY AND REACTIN	
Chemical stability:	Stable under proper conditions. No special reactivity has been reported.
Possibility of hazardous reactions:	No special reactivity has been reputed.
	Ovidizing agents
Incompatible materials:	Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
Hazardous decomposition products:	
products.	

Revision number: 3

Revision date: 2024.07.1011. TOXICOLOGICAL INFORMATION		
Acute Toxicity:	orl-rat LD50:2500 mg/kg	
	skn-rbt LD50:805 mg/kg	
Skin corrosion/irritation:	skn-rbt 490 mg open SEV	
Serious eye	eye-rbt 49 mg SEV	
damage/irritation:		
Germ cell mutagenicity:	dns-rat-lvr 10 ug/L	
	mmo-sat 100 ug/plate (-S9)	
	sce-ham-ovr 1 mg/L	
Carcinogenicity:		
IARC =	No data available	
NTP =	No data available	
Reproductive toxicity:	orl-rat TDLo:9130 mg/kg (1-22D preg)	
	orl-rat TDLo:8715 mg/kg (1-21D preg)	
	orl-rat TDLo:17430 mg/kg (1-21D preg	
	skn-gpg TDLo:3667 mg/kg (10-56D prec	J)
RTECS Number:	YE6650000	

12. ECOLOGICAL INFORMATION		
Ecotoxicity: Fish:	48h LC50:740 ppm (Oryzias latipes)	
Crustacea:	48h LC50:33.9 mg/L (Daphnia magna)	
Algae:	96h EC50:3.7 mg/L (Selenastrum capricornutum)	
Persistence / degradability:	0 % (by BOD)	
Bioaccumulative	<0.5 (conc. 2 ppm) , <5.0 (conc. 0.2 ppm)	
potential(BCF): Mobility in soil		
Log Pow:	-2.25	
Soil adsorption (Koc):	No data available	
Henry's Law (PaM ³/mol):	No data available	

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	8: Corrosive.
UN-No:	2259
Proper shipping name:	Triethylenetetramine
Packing group:	II

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed. This product is included in the list of dangerous chemicals(2015)/Serial No.: 1908

	Revision date: 2024.07.10
16. OTHER INFORMATION	
The reference company na	ame of written contents
Company:	MIT-IVY INDUSTRY CO., LTD.
Address:	2-1402, OFFICE BUILDING 2, COMMERCIAL INNER STREET AND OFFICE 1,
	SHIMAO PLAZE YUNLONG DISTRICT XUZHOUJIANGSU, CHINA 221100
Department:	Technical Information Department
Emergency telephone:	0086-17363307174
	e basis of the information we could obtained, however, any warranty shall not be given regarding the data
contained and the assessment of hazar	ds and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the

Revision date: 2024.07.10

Page 5 of 5

Revision number: 3

laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should betaken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.