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# SAFETY DATA SHEET

# 1. IDENTIFICATION

Product name: Company: Address: 2-Nitrotoluene MIT-IVY INDUSTRY CO.,LTD 2-1402,OFFICE BUILDING 2, COMMERCIAL INNER STREET AND OFFICE 1, SHIMAO PLAZE YUNLONG DISTRICT XUZHOUJIANGSU, CHINA 221100 Sales Department +86-17363307174

Responsible Department: Telephone: e-mail:

# 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture PHYSICAL HAZARDS **HEALTH HAZARDS** Acute toxicity (Oral) Germ cell mutagenicity Carcinogenicity **Reproductive toxicity** Specific target organ toxicity - Single exposure [Category 2] Specific target organ toxicity - Repeated exposure [Category 2] ENVIRONMENTAL HAZARDS Acute aquatic hazard Long-term aquatic hazard Label elements Pictograms or hazard symbols



Not classified

Category 4 Category 1B Category 1B Category 2 Blood

Liver Blood

Category 2 Category 2

Danger Harmful if swallowed May cause genetic defects May cause cancer Suspected of damaging fertility or the unborn child May cause damage to organs : Blood May cause damage to organs through prolonged or repeated exposure : Liver Blood Toxic to aquatic life Toxic to aquatic life with long lasting effects

# Precautionary statements [Prevention]

**Hazard statements** 

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors or spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling.

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[Response]	Revision date: 2024.07.10 Wear protective gloves, protective clothi IF SWALLOWED: Call a POISON CEN		well. Rinse
[Storage] [Disposal]	mouth. If exposed or concerned: Call a POISOI Collect spillage. Store locked up. Dispose of contents and container in a regulations.		ıl, national
3. COMPOSITION/INFORMA	TION ON INGREDIENTS		
Substance/mixture:	Substance		
Components: Percent:	2-Nitrotoluene >99.0%(GC)		
CAS RN:	88-72-2		
Chemical Formula:	C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>		
4. FIRST AID MEASURES Inhalation:	Remove victim to fresh air and keep at Call a POISON CENTER or doctor/phys		e for breathing.
Skin contact:	Remove/Take off immediately all conta of soap and water. Call a POISON CEN	minated clothing. Gently was	sh with plenty
Eye contact:	Rinse cautiously with water for several and easy to do. Call a POISON CENTE	minutes. Remove contact le	nses, if present
Ingestion:	Call a POISON CENTER or doctor/phys		
Protection of first-aiders:	A rescuer should wear personal protecti air-tight goggles.	ve equipment, such as rubb	er gloves and
5. FIRE-FIGHTING MEASUR	ES		
Suitable extinguishing	Dry chemical, foam, water spray, carbor	ı dioxide.	
media: Unsuitable extinguishing	Solid streams of water		
media:			
Specific hazards arising fro the chemical:	m Take care as it may decompose upon c generate poisonous fume.	ombustion or in high temper	atures to
	Fire-extinguishing work is done from the	windward and the suitable	
	fire-extinguishing method according to the Uninvolved persons should evacuate to	a safe place. In case of fire	
Special protective equipme for firefighters:	surroundings: Remove movable contain nt When extinguishing fire, be sure to wear		nent
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Kee spill/leak. Ensure adequate ventilation. I controlled around the leakage area by re	Entry to non-involved persor	

Be careful not to let it flow into rivers, etc., since adverse effects on the

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth,

or collected material should be promptly disposed of, in accordance with

saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered

environment are concerned.

appropriate laws and regulations.

Environmental precautions:

Methods and materials for

containment and cleaning

up:

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7. HANDLING AND STORAGE	E
Precautions for safe handling Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective
rechnical measures.	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
Advice on cofe handling	aerosol will be generated.
Advice on safe handling: <u>Conditions for safe storage, inc</u>	Avoid all contact! Iuding any
incompatibilities	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store locked up. Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.
r dokuging matorian	Comply manane.
8. EXPOSURE CONTROLS / I	
Engineering controls:	Install a closed system or local exhaust. Also install safety shower and eye bath.
Exposure limits: ACGIH TLV(TWA):	2 ppm (skin)
OSHA PEL(TWA):	5 ppm (skin)
Personal protective equipme	ent é
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA),
	supplied air respirator, etc. Use respirators approved under appropriate
Hand protection:	government standards and follow local and national regulations. 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 CHEMICA	DRADEDTIES
Physical state (20°C):	L PROPERTIES Liquid
Form:	Clear
Colour:	Pale yellow - Yellow
Odour:	Weakly Aromatic No data available
pH: Melting point/freezing point:	
Boiling point/range:	222°C
Flash point:	106°C
Flammability or explosive	
limits: Lower:	2.2%
Upper:	No data available
Vapour pressure:	0.02kPa/20°C
Vapour density:	4.73
Relative density:	1.17
Solubility(ies): [Water]	Insoluble (0.044g/100mL, 20°C)
[Other solvents]	
Miscible:	Ether
Soluble:	Alcohols, Benzene, Acetone, Chloroform, Petroleum ether, Petroleum benzine,
Slightly soluble:	Sulfur dioxide Ammonia
Log Pow:	2.3
Autoignition temperature:	305°C
10. STABILITY AND REACTIN	
Chemical stability:	Stable under proper conditions.
Possibility of hazardous	No special reactivity has been reported.
reactions:	
Incompatible materials:	Oxidizing agents, Acids, Bases, Reducing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
Hazardous decomposition	

products:

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Acute Toxicity:	orl-rat LD50:891 mg/kg ihl-rat LC50:790 mg/m³
Skin corrosion/irritation: Serious eye damage/irritation:	No data available No data available
Germ cell mutagenicity:	dna-rat-orl 150 mg/kg dns-rat-lvr 500 ug/L dns-rat-orl 200 mg/kg sce-ham-ovr 355 mg/L
Carcinogenicity: IARC = NTP =	orl-rat TDLo:10.1 g/kg/12W-C Group 2A (Probably carcinogenic to humans) No data available
Reproductive toxicity:	orl-mus TDLo:140 g/kg (13W male) orl-rat TDLo:32123  mg/kg (13W male)
RTECS Number:	XT3150000

## **12. ECOLOGICAL INFORMATION**

Ecotoxicity:	
Fish:	48h LC50:88 ppm (Oryzias latipes)
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	0.5 % (by BOD) , 0.8 % (by GC) , 2.3 % (by UV-VIS)
Bioaccumulative	12.5 - 29.9 (conc. 0.1 ppm) , 6.6 - 29.7 (conc. 0.01 ppm)
potential(BCF):	
Mobility in soil	
Log Pow:	2.3
Soil adsorption (Koc):	370
Henry's Law (PaM ³/mol):	1.27

## **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:	6.1: Toxic substance.
UN-No:	1664
Proper shipping name:	Nitrotoluenes, liquid
Packing group:	II
Marine pollutant	Y

## **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.: 2264

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16. OTHER INFORMATION The reference company nam	ne 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
This SDS was prepared sincerely on the b	asis of the information we could obtained, however, any warranty shall not be given regarding the data

contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the 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 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.