



Yixing Wencheng Chemical Co., Ltd.

Revision number: 2

Revision date: 09/06/2019

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 3-Nitrotoluene
Product code: N0274
Company: Yixing Wencheng Chemical Co., Ltd.
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Revision number: 2

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral) Category 4
Acute toxicity (Inhalation) Category 2
Skin corrosion/irritation Category 3
Serious eye damage/eye irritation Category 2B
Reproductive toxicity Category 2
Specific target organ toxicity
- Single exposure [Category 2] Blood
Specific target organ toxicity
- Repeated exposure [Category 2] Immune system

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 2
Long-term aquatic hazard Category 2

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Harmful if swallowed
Fatal if inhaled
Causes mild skin irritation
Causes eye irritation
Suspected of damaging fertility or the unborn child
May cause damage to organs : Blood
May cause damage to organs through prolonged or repeated exposure : Immune system
Toxic to aquatic life
Toxic to aquatic life with long lasting effects

Precautionary statements

[Prevention]

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist, vapors or spray.
Use only outdoors or in a well-ventilated area.

[Response]	<p>Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Call a POISON CENTER or doctor.</p>
[Storage]	<p>Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up.</p>
[Disposal]	<p>Dispose of contents and container in accordance with local, regional, national regulations.</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	3-Nitrotoluene
Percent:	>99.0%(GC)
CAS RN:	99-08-1
Chemical Formula:	C ₇ H ₇ NO ₂

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.
Ingestion:	Call a POISON CENTER or doctor/physician. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Unsuitable extinguishing media:	Solid streams of water
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Precautions for firefighters:	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
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.

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 all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 equipment	
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 CHEMICAL PROPERTIES

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Pale yellow - Yellow
Odour:	Weakly Aromatic
Odour threshold:	0.045 ppm
pH:	No data available
Melting point/freezing point:	16°C (Freezing point)
Boiling point/range:	232°C
Flash point:	106°C
Flammability or explosive limits:	
Lower:	1.6%
Upper:	No data available
Vapour pressure:	27.6Pa/25°C
Vapour density:	4.73
Relative density:	1.16
Solubility(ies):	
[Water]	Insoluble (0.05g/100mL, 20°C)
[Other solvents]	
Miscible:	Ether, Alcohols
Soluble:	Benzene
Log Pow:	2.45
Autoignition temperature:	440°C

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible materials:	Oxidizing agents, Strong acids, Strong bases, Reducing agents
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ihl-mus LC50:425 mg/m ³ ihl-rat LC50:693 mg/m ³ orl-mus LD50:330 mg/kg orl-rat LD50:1072 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	sce-ham-ovr 115 mg/L
Carcinogenicity:	
IARC =	Group 3 (Not classifiable as carcinogenic to humans)
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo: 60151 mg/kg (13W male) orl-rat TDLo: 31122 mg/kg (13W pre)
RTECS Number:	XT2975000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	48h LC50:71 mg/L (Oryzias latipes)
Crustacea:	48h EC50:7.5 mg/L (Daphnia magna)
Algae:	No data available
Persistence / degradability:	2% (by BOD) , 6% (by TOC) , 3% (by UV-VIS)
Bioaccumulative potential(BCF):	0.47 - 8.5 (conc. 25 ug/L) , 3 - 12 (conc. 2.5 ug/L)
Mobility in soil	
Log Pow:	2.45
Soil adsorption (Koc):	510
Henry's Law (PaM³/mol):	0.93

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.: 2265

16. OTHER INFORMATION

The reference company name of written contents

Company:	Yixing Wencheng Chemical Co., Ltd.
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This SDS was prepared sincerely on the basis 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 be taken, 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.