

1. IDENTIFICATION

Product name: Aniline
 CAS: 62-53-3
 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
 Telephone: 0086-13805212761
 Fax: 0086-0516-83769139
 E-mail: INFO@MIT-IVY.COM

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 4

HEALTH HAZARDS

Acute toxicity (Oral) Category 3
 Acute toxicity (Dermal) Category 3
 Acute toxicity (Inhalation) Category 2
 Skin corrosion/irritation Category 3
 Serious eye damage/eye irritation Category 1
 Skin sensitization Category 1
 Germ cell mutagenicity Category 2
 Carcinogenicity Category 2
 Specific target organ toxicity Liver Blood system Respiratory system Nervous system
 - Single exposure [Category 1] Heart Kidney
 Specific target organ toxicity Blood system Respiratory system Nervous system
 - Repeated exposure [Category 1]

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 1

Label elements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger
 Combustible liquid
 Fatal if inhaled
 Toxic if swallowed or in contact with skin
 Causes mild skin irritation
 Causes serious eye damage
 May cause an allergic skin reaction
 Suspected of causing genetic defects
 Suspected of causing cancer
 Causes damage to organs : Liver Blood system
 Respiratory system Nervous system Heart Kidney
 Causes damage to organs through prolonged or repeated
 exposure : Blood system Respiratory system Nervous

system Very toxic to aquatic life

Precautionary statements**[Prevention]**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from flames and hot surfaces. – No smoking.
 Do not breathe mist, vapors or spray.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing should not be allowed out of the workplace.
 Wash hands and face thoroughly after handling.
 Wear respiratory protection.

[Response]

Wear protective gloves, protective clothing, face protection.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.
 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.
 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. Immediately call a POISON CENTER or doctor.
 If exposed or concerned: Call a POISON CENTER or doctor.
 In case of fire: Use dry chemical, dry sand or foam to extinguish.
 Collect spillage.

[Storage]

Store in a well-ventilated place. Keep container tightly closed.

[Disposal]

Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Aniline
Percent:	>98.0%(GC)(T)
CAS RN:	62-53-3
Chemical Formula:	C ₆ H ₇ N

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:	Immediately 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.
- Prevention of secondary hazards:** Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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 under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Light-sensitive, Hygroscopic
- 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:	Colorless - Pale yellow
Odour:	Characteristic
Odour threshold:	1.1 ppm
pH:	8.1 (0.2mol H ₂ O Soln.)
Melting point/freezing point:	-6°C
Boiling point/range:	184°C
Flash point:	75°C
Flammability or explosive limits:	
Lower:	1.3%
Upper:	11%
Vapour pressure:	40Pa/20°C
Vapour density:	3.2
Relative density:	1.02
Solubility(ies):	
[Water]	Soluble (3.4g/100mL, 20°C)
[Other solvents]	
Miscible:	Many organic solvents
Log Pow:	0.94
Autoignition temperature:	615°C
Decomposition temperature:	190 °C
Dynamic Viscosity:	4.4mPa·s (20°C)

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Open flame
Incompatible materials:	Oxidizing agents, Acids, Bases, Copper, Aluminium, Zinc, Alkali metals, Alkaline earth metals, Copper alloys, Iron
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ihl-rat LCLo:250 ppm/4H orl-chd TDLo:3125 mg/kg orl-rat LD50:250 mg/kg skn-rbt LD50:820 uL/kg
Skin corrosion/irritation:	skn-rbt 20 mg/24H MOD
Serious eye damage/irritation:	eye-rbt 20 mg/24H MOD
Germ cell mutagenicity:	bfa-rat-sat 300 mg/kg dnr-esc 39658 ug/well/16H mmo-mus-lym 500 umol/L (+S9) mmo-sat 100 ug/plate (-S9)
Carcinogenicity:	orl-rat TD:72800 mg/kg/2Y-C orl-rat TDLo:11 g/kg/29W-C Group 3 (Not classifiable as carcinogenic to humans)
IARC =	No data available
NTP =	
Reproductive toxicity:	orl-mus TDLo:4480 mg/kg (6-13D preg)
RTECS Number:	BW6650000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	96h LC50:27 mg/L (Oryzias latipes)
Crustacea:	48h EC50:0.32 mg/L (Daphnia magna)
Algae:	72h EC50:110 mg/L (Selenastrum capricornutum)
Persistence / degradability:	85% (by BOD) , 100% (by HPLC) , 99% (by TOC)
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
Log Pow:	0.94
Soil adsorption (Koc):	No data available
Henry's Law (PaM³/mol):	No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	6.1: Toxic substance.
UN-No:	1547
Proper shipping name:	Aniline
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.: 51

16. OTHER INFORMATION

The reference company name of written contents

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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.