

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name : ORTHO-TOLIDINE 98% AR
 CAS#: 119-93-7
 C.I. No.: Not available.
 Synonym : Not available.
 Chemical Name: Not available.
 Chemical Formula: C₁₄H₁₆N₂

Composition and Information on Ingredients

Name	S.K.U	% by Weight
ORTHO-TOLIDINE 98% AR	GCS-5427	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation

(EC) No 1999/45 Classification :

Carc. Cat. 2; R45

C; R34

Xi; R37

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350

Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335
 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures

Inhalation

Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin contact

Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor.

Eye contact

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.

Ingestion :

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed Symptoms relating to use : May cause cancer.

Causes severe skin burns and eye damage. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Thermal decomposition generates :
Corrosive vapours.

Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment,

Including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject)

Fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

Special precautions : Do not allow water (or moist air) contact with this material.

For non-emergency personnel : Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

Notify authorities if

product enters sewers or public waters.

Methods and materials for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Handling and Storage

Precautions for safe handling

Handling : Use only outdoors or in a well-ventilated area. Wash contaminated clothing before reuse. Wash thoroughly after handling. Obtain special instructions before use. Do not breathe dust, fume, gas, mist, vapours, spray.

Technical protective measures prevent formation of : Provide good ventilation in process area to Vapor.

Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Specific end uses

Specific end use(s) : None.

Exposure Controls/Personal Protection

Personal protection	: Avoid all unnecessary exposure.
• <u>Respiratory protection</u>	: <u>Wear approved mask.</u>
• <u>Hand protection</u>	: <u>Wear protective gloves.</u>
• <u>Eye protection</u>	: <u>Chemical goggles or safety glasses.</u>
• <u>Others</u>	: <u>When using, do not eat, drink or smoke.</u>

Control parameters
Occupational Exposure Limits : No data available

Physical and Chemical Properties

Information on basic physical and chemical properties Physical state at 20 °C	: Solid
Color	: White to light brown
Odor	: Amine like
Odor threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 128 - 131 °C.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 4800C
Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: 100°C
Initial boiling point [°C]	: 200 °C
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 0.2 mbar @ 200C
Vapour density	: N/A
Density [g/cm3]	: 3,7
Relative density, gas (air=1)	1004
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: Slightly soluble
in Log Pow octanol / water at 20°C	: N/A.
Solubility	: No data available.
Viscosity at 40°C [mm2/s]	: N/A
Molecular Weight	: 212.30

Other information

Explosive properties : N/A
Explosion limits - upper [%] : 7.50%
Explosion limits - lower [%] : 1.50%
Oxidizing properties : No data available.

Stability and Reactivity Data**Reactivity**

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions : Not established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures, Moisture

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
Thermal decomposition generates: Corrosive vapours.

Toxicological Information**Information on toxicological effects****Acute toxicity**

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

Corrosion : Causes serious eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Toxic for reproduction : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the classification criteria are not met. STOT-repeated exposure : Based on available data, the classification criteria are not met. Aspiration hazard : Based on available data, the classification criteria are not met.

Ecological Information

Toxicity

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Persistence – degradability

Persistence - degradability : Biodegradable.

Bio accumulative potential

Bio accumulative potential : Not established.

Mobility in soil

Mobility in soil : Not established.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects

Environmental precautions: Avoid release to the environment.

Disposal Considerations

Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Transformation Information

Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID,

UN N°	N.O.S.
H.I. nr	3077
ADR - Class	90
	9
Labelling - Transport articles.	: 9 : Miscellaneous dangerous substances and
ADR - Group	III
Sea transport (IMDG) [English only]	
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID,
	N.O.S.
UN N°	3077
IMO-IMDG - Class or division	: 9 : Miscellaneous dangerous substances and
articles.	
IMO-IMDG - Packing group	III
Air transport (ICAO-IATA) [English only]	
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID,
	N.O.S.
UN N°	3077
IATA - Class or division	: 9 : Miscellaneous dangerous substances and
articles.	
IATA - Packing group	III

Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental: Ensure all national/local regulations are observed. Regulations/legislation specific for The substance or mixture

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions. REACH Authorization - Annex XIV: The components of this product are not subject to authorization. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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