

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name : ORTHO-TOLIDINE HYDROCHLORIDE 95% AR
 CAS#: 612-82-8
 C.I. No.: Not available.
 Synonym : Not available.
 Chemical Name: Not available.
 Chemical Formula: C₁₄H₁₆N₂.2HCL.XH₂O

Composition and Information on Ingredients

Name	S.K.U	% by Weight
ORTHO-TOLIDINE HYDROCHLORIDE 95% AR	GCS-9158	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation

(EC) No 1999/45 Classification : Xn;

R22

N; R51-53

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

Health hazards : Hazardous to the aquatic environment -
 Chronic hazard - Category 2 (CLP : Aquatic
 Chronic 2) H411

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

Assure fresh air breathing. Allow the victim to rest.

Skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion :

Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Not expected to present a significant hazard under anticipated conditions of normal use.

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.

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.
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Technical protective measures prevent formation of	: Provide good ventilation in process area to Vapor.
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Special precautions vapours, spray.	: Avoid breathing dust, fume, gas, mist,
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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 ignition. Direct sunlight.	: Strong bases. Strong acids. Sources of

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

: Off white crystalline

Odor

: Slight odour of hydrochloric acid

Odor threshold

: No data available.

pH value

: Not applicable.

Melting point [°C]

: 215 - 217 °C

Decomposition point [°C]

: N/A

Critical temperature [°C]

: N/A

Auto-ignition temperature [°C]

: N/A

Flammability (solid, gas)

: N/A

Flash point [°C]

: N/A

Boiling point [°C]

: N/A

Initial boiling point [°C]

: N/A

Final boiling point [°C]

: N/A

Evaporation rate

: N/A

Vapour pressure [20°C]

: N/A

Vapour pressure mm/Hg

: N/A

Vapour density

: N/A

Density [g/cm³]

: N/A

Relative density, gas (air=1)

: N/A

Relative density, liquid (water=1)

: N/A
Solubility in water [% weight]
: Soluble in water
Solubility in water
: N/A
Log Pow octanol / water at 20°C
: No data available.
Solubility
: N/A
Viscosity at 40°C [mm²/s]
: N/A
Molecular Weight
: 282.22

Other information Explosive properties

: N/A
Explosion limits - upper [%]
: N/A
Explosion limits - lower [%]
: N/A
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.

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,

N.O.S.

UN N° 3077

H.I. nr 90

ADR - Class 9

Labelling - Transport : 9 : Miscellaneous dangerous substances and articles.

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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