

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Nicotine
Product code: N0079

Product use:For laboratory research purposes.Restrictions on use:Not for drug or household use.

Company: TCI America

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Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

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Transportation Emergencies: Chemtrec 24-Hour

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TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 1]

WHMIS 2015:

Acute Toxicity - Dermal [Category 1] Acute Toxicity - Inhalation [Category 2] Skin Corrosion/Irritation [Category 2] Toxic to Reproduction [Category 2]

Specific Target Organ Toxicity (Single Exposure) [Category 1]

Aquatic Hazard (Acute) [Category 1]
Aquatic Hazard (Long-Term) [Category 1]

Signal word: Danger!

Hazard Statement(s): Fatal if swallowed, in contact with skin or if inhaled

Causes skin irritation

Suspected of damaging fertility or the unborn child Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Causes damage to: Respiratory System Digestive Tract Nervous System Cardiovascular System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [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. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. 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.

[Response] If swallowed: Immediately call a poison center or doctor. Rir

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of soap and water. Immediately call a poison center or doctor. 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 exposed: Call a poison center or doctor. Collect

spillage.

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

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

[Storage] [Disposal]

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

 Substance/mixture:
 Substance

 Components:
 Nicotine

 Percent:
 >95.0%(GC)(T)

 CAS RN:
 54-11-5

 Molecular Weight:
 162.24

 Chemical Formula:
 C₁₀H₁₄N₂

Synonyms: (S)-3-(1-Methyl-2-pyrrolidinyl)pyridine

4. FIRST-AID MEASURES

Description of 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.

Immediately 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.

Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Symptoms/effects:

Acute: No data available

Delayed: May have effects on the respiratory tract.

Indication of any immediate medical attention:

Not available.

Notes to physician:

Notes to physician: No data available

Other specific hazards:

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

Specific hazards arising from the

chemical: Hazardous combustion products:

These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

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,

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Environmental precautions: Methods and materials for containment

and cleaning up:

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

Hygroscopic Air-sensitive

Packaging material: Comply with laws.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA): 0.5 mg/m³ (skin) **OSHA PEL(TWA):** 0.5 mg/m³ (skin)

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

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

Colorless - Reddish yellow

Odour: Characteristic
Odor threshold: No data available
Odour threshold: No data available

Melting point/freezing point:-80°C (-112°F)pH:No data availableBoiling point/range:91°C /0.4kPa (196°F)Vapour pressure:No data available

Decomposition temperature: No data available Vapour density: 5.6

Relative density: 1.02 Dynamic Viscosity: No data available

Kinematic viscosity: No data available

Log Pow: No data available Evaporation rate(Butyl No data available

Acetate=1):

Flash point: 95°C (203°F) Autoignition temperature: 240°C (464°F)

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: 0.7% Upper: 4%

Solubility(ies):

[Water] Miscible

[Other solvents]

Very soluble: Ether, Alcohols, Chloroform, Petroleum ether

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents, Strong acids

Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

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11. TOXICOLOGICAL INFORMATION

RTECS Number: QS5250000

Acute Toxicity:

orl-rat LD50:50 mg/kg skn-rbt LD50:50 mg/kg ipr-rat LD50:14560 ug/kg scu-rat LD50:23.5 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity: mmo-smc 100 ppm (-S9) cyt-hmn-mmr 200 umol/L/24H

dlt-mus-ipr 10 mg/kg/2D-I

Carcinogenicity: No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

orl-wmn TDLo:40 ug/kg (24W preg) orl-mus TDLo:642 mg/kg (21D pre/1-21D preg) orl-rat TDLo:22 mg/kg (20D post)

Target organ(s):

Causes damage to: Respiratory System Digestive Tract Nervous System Cardiovascular System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available

Crustacea: 48h EC50:0.242 mg/L (Daphnia magna)

Algae: 72h EC50:11 mg/L (Desmodesmus subspicatus)

72h NOEC:3.2 mg/L (Desmodesmus subspicatus)

Persistence / degradability: No data available

Bioaccumulative potential(BCF): 5

Mobility in soil

Disposal of container:

 Log Pow:
 1.2

 Soil adsorption (Koc):
 100

 Henry's Law (PaM ³/mol):
 3.0 x 10-4

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

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14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1654 Nicotine 6.1 Toxic material.

<u>IATA</u>

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1654 Nicotine 6.1 Toxic material.

IMDG

UN UN1654 Proper Shipping Name: Class or Division: Packing Group:

numb Nicotine 6.1 Toxic material. II

er:

EmS number: F-A, S-A

Reportable Quantitiy: 100 Pounds (45.4 Kilograms)

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Listed SARA 302: Listed

State Regulations

State Right-to-Know

MassachusettsListedNew JerseyListedPennsylvaniaListedCalifornia Proposition 65:Listed

Other Information

NFPA Rating:
Health: 4
Flammability: 1
Instability: 0
HMIS Classification:
Health: 4
Flammability: 1
Flammability: 1
Physical: 0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 200-193-3

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.