

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 12 Dec 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

N-Nitrosodiethylamine

1.1. Catalog No.:

684141

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Regulation (EC) No 1272/2008
Acute toxicity - Oral Category 3 - (H301)
Carcinogenicity Category 1B - (H350)
Chronic aquatic toxicity Category 3 - (H412)

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2. Label Elements
Contains N-Nitrosodiethylamine
Signal word Danger
Hazard statements

Santa Cruz Biotechnology, Inc.
10410 Finnell Street
Dallas, TX 75220
831.457.3800
800.457.3801

scbt@scbt.com

Santa Cruz Biotechnology, Inc.
Bergheimer Str. 89-2

69115 Heidelberg, Germany

+49.6221.4503 0

+1.800.457.3801

europe@scbt.com

H301 - Toxic if swallowed

H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008) P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301 + P310 - IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician

P321 - Specific treatment (see Emergency Phone Number on this label)

P330 - Rinse mouth

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P273 - Avoid release to the environment

2.3. Other Hazards

Other hazards Harmful to aquatic life

General Hazards Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name: N-Nitrosodiethylamine

EC No: Present

Weight-%: 100

Classification according to

Regulation (EC) No. 1272/2008 [CLP]: Acute Tox. 3 (H301)

Carc. 1B (H350)

Aquatic Acute 3 (H402)

Aquatic Chronic 3 (H412)

3.1.1. Formula

C₄H₁₀N₂O

3.1.2. Molecular Weight (g/mol)

102.14

3.1.3. CAS-No.

55-18-5

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Consult a physician if necessary.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Skin Contact Wash skin with soap and water.

Eye contact Wash with plenty of water.

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

flammable

Hazardous combustion products Carbon oxides. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material.

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Possibly Carcinogenic.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name: N-Nitrosodiethylamine

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European Union

United Kingdom

France

Spain

Germany: Skin

Austria: Skin

Switzerland: Skin

TWA: 0.001 mg/m³

Poland

Norway

Ireland

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Showers

Eyewash stations

Ventilation systems

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid
Appearance No information available
Odor No information available
Property Values
pH No information available
Melting point/freezing point -15.60 °C
Boiling point 177 °C
Flash point No information available
Liquid Density 0.95 g/mL
Evaporation rate No information available
Upper flammability limits No information available
Lower flammability limit No information available
Vapor pressure 1.7 mmHg
Vapor density No information available
Specific gravity No information available
Water solubility No information available
Solubility in other solvents No information available
Partition coefficient 0.48
Autoignition temperature No information available
Decomposition temperature No information available
Kinematic viscosity No information available
Explosive properties No information available
Oxidizing properties No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity Not applicable
10.2. Chemical stability
Stability Stable under recommended storage conditions.
Sensitivity to Mechanical Impact No information available.
Sensitivity to Static Discharge No information available.
10.3. Possibility of hazardous reactions
Hazardous polymerization No information available.
Possibility of Hazardous Reactions None under normal processing.
10.4. Conditions to avoid
Conditions to avoid Extremes of temperature and direct sunlight.
10.5. Incompatible materials
Incompatible materials Strong oxidizing agents.
10.6. Hazardous decomposition products
Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute toxicity
Product Information Product does not present an acute toxicity hazard based on known or supplied information.
Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 220.00 mg/kg
Chemical name: N-Nitrosodiethylamine
Oral LD50 = 220 mg/kg (Rat)
Dermal LD50
Inhalation LC50
Chemical name: N-Nitrosodiethylamine
55-18-5
ACGIH: -
IARC: Group 2A

NTP: Reasonably Anticipated

OSHA: X

IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans

NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity May cause long lasting harmful effects to aquatic life.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

14.1 UN/ID no

RID / ADR UN2810

IMDG UN2810

ICAO (Luft) / IATA UN2810

14.2 Proper shipping name

RID / ADR Toxic liquid, organic, n.o.s.

IMDG Toxic liquid, organic, n.o.s.

ICAO (Luft) / IATA Toxic liquid, organic, n.o.s.

14.3 Hazard Class

RID / ADR 6.1

IMDG 6.1

ICAO (Luft) / IATA 6.1

Subsidiary hazard class / Labels

RID / ADR -

IMDG -

ICAO (Luft) / IATA -

14.4 Packing Group

RID / ADR III
IMDG III
ICAO (Luft) / IATA III
14.5 Environmental Hazard
RID / ADR -
IMDG -
ICAO (Luft) / IATA -
14.6 Special Provisions
RID / ADR 274, 614; Classification code T1; Tunnel restriction code (E)
IMDG 223, 274; EmS-No F-A, S-A
ICAO (Luft) / IATA A3, A4, A137; ERG Code 6L

15. REGULATORY INFORMATION

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

National Regulations

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP)

Chemical name: N-Nitrosodiethylamine

TSCA: X

DSL: X

NDSL: -

EINECS: X

ELINCS: -

ENCS: -

IECSC: -

KECL: -

PICCS: -

AICS: -

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!