

1,3-Di-tert-butylimidazol-2-ylidene: sc-287245



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 1,3-Di-tert-butylimidazol-2-ylidene

Product Number: sc-287245

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Skin Corrosion/Irritation [Category 2]

Eye Damage/Irritation [Category 2A]

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

Causes serious eye irritation

Causes skin irritation

Precautionary statement(s)

Prevention

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

Response

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

None

Disposal

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 1,3-ditert-butyl-2H-imidazol-1-ium-2-ide

Formula: C₁₁H₂₀N₂

Molecular weight: 180.29

CAS #: 157197-53-0

4. FIRST AID MEASURES

If inhaled

Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

In case of skin contact

If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before reuse. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

In case of eye contact

IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

If swallowed

Do not induce vomiting without medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Symptoms/Effects

Acute : Redness

Delayed: No data available

Immediate medical attention

If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO₂, water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.

Hazardous combustion products

These products include: Carbon oxides, Nitrogen oxides

Other specific hazards

Closed containers may explode from heat of a fire.

Special precautions for firefighters

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

Special protective equipment for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Personal protective equipment

Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

Emergency procedures

Prevent dust cloud. Do not clean-up or dispose except under supervision of a specialist. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away.

Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

Conditions for safe storage

Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.

Store under inert gas (e.g. Argon). Moisture sensitive. Store at 4° C.

Storage incompatibilities

Store away from oxidizing agents

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limits

No data available

Engineering controls

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment**Respiratory protection**

Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection

Nitrile gloves.

Skin and body protection

Lab coat.

Eye protection

Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	solid	pH	no data available
Melting point/freezing point	no data available	Boiling point	no data available
Flash point	no data available	Ignition temperature	no data available
Autoignition temperature	no data available	Lower explosion limit	no data available
Explosion limits	no data available	Vapor pressure	no data available
Relative Density	no data available	Solubility	no data available
Relative vapor density	no data available	Odor	no data available
Odor Threshold	no data available	Evaporation rate	no data available

Decomposition temperature	no data available	Kinematic Viscosity	no data available
Partition coefficient n-octanol/water	no data available	Dynamic Viscosity	no data available

10. STABILITY AND REACTIVITY

Chemical reactivity

no data available

Chemical stability

Air sensitive. Heat sensitive. Moisture sensitive

Materials to avoid

Oxidizing agents

Conditions to avoid

Air sensitive. Exposure to air. Exposure to moisture. Heat sensitive. Moisture sensitive.

Hazardous decomposition products

No hazardous reactivity has been reported

11. TOXICOLOGICAL INFORMATION

RTECS: Not available

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No data available

NTP: No data available

OSHA: No data available

Reproductive toxicity

no data available

Routes of exposure

Inhalation, eye contact, ingestion, skin contact

Signs and Symptoms of Exposure

Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering.

Skin contact may result in redness, pain or dry skin. Eye contact may result in redness or pain.

Potential health effects

Skin and eye contact may result in irritation

Target organs

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish: No data available

Crustacea: No data available

Algae: No data available

Persistence and degradability

No data available

Bioaccumulative potential (BCF)

No data available

Mobility in soil

No data available

Soil adsorption (Koc)

No data available

Henry's Law constant (PaM3/mol)

No data available

13. DISPOSAL CONSIDERATIONS**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. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

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

14. TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**Toxic Substance Control Act (TSCA 8b.):**

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations**CERCLA Hazardous substance and Reportable Quantity:**

SARA 313: Not Listed

SARA 302: Not Listed

State Regulations**State Right-to-Know**

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

California Proposition 65 Not Listed

HMIS Classification

Health hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 1

Fire: 0

Reactivity Hazard: 0

International Inventories

WHMIS hazard class: D2B: Materials causing other toxic effects. (Toxic)

Notice Through Official Gazettes Reference Number: (Japan)

ENCS: Not Listed

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

06/24/2014