

Ratjadone A, Synthetic: sc-203234



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product name : Ratjadone A, Synthetic **Catalog #** : sc-203234
Chemical formula : $C_{28}H_{40}O_5$ **Supplier** : Santa Cruz Biotechnology, Inc.
Synonym : Ratjadon 2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

2. Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
Ratjadon	163564-92-9	Not available.	F, T	R11, R23/24/25, R39/23/24/25

3. Hazards identification

Physical/chemical hazards : Highly flammable.

Human health hazards : WARNING!
HIGHLY FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

4. First-aid measures

First-Aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion** : If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Effects and symptoms

- Inhalation** : Very hazardous in case of inhalation. May be fatal if inhaled
- Ingestion** : Very hazardous in case of ingestion. May be fatal if swallowed
- Skin Contact** : Very hazardous in case of skin contact (permeator). Severe over-exposure can result in death
- Aggravating conditions** : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

5. Fire-fighting measures

Flammability of the Product : Flammable.

Extinguishing Media

- Suitable** : SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog.

Hazardous thermal (de)composition products : These products are carbon oxides (CO, CO₂).

Special fire-fighting procedures : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

- Personal precautions** : Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Small Spill and Leak** : Absorb with an inert material and put the spilled material in an appropriate waste disposal.
- Large Spill and Leak** : Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

7. Handling and storage

- Handling** : Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above -70°C (-94°F).
- Packaging materials**
- Recommended use** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Ratjadone A, Synthetic	Not available.

Personal protective equipment

- Respiratory system** : Vapor respirator. Be sure to use an approved/certified respirator or equivalent
- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Safety glasses.
- Protective Clothing (Pictograms)** :



9. Physical and chemical properties

- Physical state** : Liquid. (Supplied in Methanol.)
- Color** : Not available.
- Molecular Weight** : 456.6 g/mole
- Solubility** : Easily soluble in methanol.
- Flash point** : Not available.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Not available.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

<u>RTECS #</u>	: Not available.
<u>Local effects</u>	
Skin irritation	: Not available.
Acute toxicity	: LD50: Not available. LC50: Not available.
Chronic toxicity	: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Other Toxic Effects on Humans	: Not available. Very hazardous in case of skin contact (permeator), of ingestion, of inhalation Toxic for humans or animal life. To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.
Carcinogenic effects	: Not available.
Mutagenic effects	: Not available.
Reproduction toxicity	: Not available.
Teratogenic effects	: Not available.

12. Ecological information

Ecotoxicity	: Not available.
Toxicity of the Products of Biodegradation	: The products of degradation are less toxic than the product itself.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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14. Transport information

International transport regulations

UN number	: UN1992
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Land - Road/Railway

Proper shipping name	: Flammable liquid, toxic, n.o.s.*
ADR/RID Class	: CLASS 3: Flammable liquid A. CLASS 6.1: Toxic substance.
Packing Group	: II
ADR/RID label	:



Air

Proper shipping name	: Flammable liquid, toxic, n.o.s.*
UN/ID Number	: UN1992
IATA-DGR Class	: CLASS 3: Flammable liquid. CLASS 6.1: Toxic substance.
Packing Group	: II
IATA label	:



Special Provisions for Transport	: Not available.
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Sea

Proper shipping name	: Flammable liquid, toxic, n.o.s.*
IMDG Class	: CLASS 3.1: Flammable liquid (Low flashpoint group of liquids having a flashpoint below -18°C (0°F) c.c.). CLASS 6.1: Toxic substance.
Packing Group	: II
IMDG label	:



15. Regulatory information

EU Regulations

Hazard symbol(s)



Classification

: Highly flammable, Toxic

Risk Phrases

: R11- Highly flammable.
R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases

: S7- Keep container tightly closed.
S16- Keep away from sources of ignition - No smoking.
S36/37- Wear suitable protective clothing and gloves.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains

: - Ratjadone A, Synthetic

U.S. Federal Regulations

: TSCA: No products were found.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.
CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F).
CLASS: Toxic.

HCS Classification

: CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F).
CLASS: Toxic.

State Regulations

:

WHMIS (Canada)

: Not controlled under WHMIS (Canada).
No products were found.

16. Other information

**Hazardous Material
Information System
(U.S.A.)**

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	G

**National Fire
Protection Association
(U.S.A.)**



Notice to Reader

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.

Emergency Contact:

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Santa Cruz, California 95060
800.457.3801 or 831.457.3800
or Luis Yanez 831.251.2170