

Olanzapine-methyl-d3: sc-212470



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Olanzapine-methyl-d3

Catalog Number: sc-212470

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 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

WHMIS Classification

D1B Toxic material causing immediate and
D2B Serious toxic effects

Toxic by ingestion
Moderate eye irritant
Sensitizer

HMIS Classification

Health Hazard: 2
Flammability: 1
Physical Hazards: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion Toxic if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes Causes eye irritation.

GHS Hazard Class

Acute toxicity, oral (category 3)
Sensitization, skin (category 1)
Serious eye irritation (category 2)

GHS Label elements, including precautionary statements

Signal word Danger

Hazard statements

H301 Toxic if swallowed
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: wash with plenty of soap and water.
P313+P333 IF SKIN irritation or rash occurs: Get medical advice/attention.

GHS Label Pictograms



3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula: C₁₇H₁₇D₃N₄S

Molecular Weight: 315.45

CAS Registry #: 786686-79-1

Synonyms: 2-Methyl-4-(4-methyl-d3-1-piperazinyl)-10H-thieno[2,3-b][1,5]benzodiazepine; Integrol-d3; LY 170053-d3; Lanzac-d3; Oleanz-d3; Oliza-d3; Olta-d3; Zyprexa-d3

4. FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust or aerosol formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

Conditions for safe storage

Keep container tightly close in a dry and well-ventilated place. Store at -20°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

solid

Safety data

pH	N/A	Melting point	188-190°C
Boiling point	N/A	Flash point	N/A
Ignition temperature	N/A	Lower explosion limit	N/A
Upper explosion limit	N/A	Vapour pressure	N/A
Density	N/A	Water solubility	N/A

10. STABILITY AND REACTIVITY**Chemical stability**

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides, sulfur oxides.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 (oral - rat) 177 mg/kg
LD50 (dermal - rabbit) >200 mg/kg
LC50 (inhalation - rat) >880 mg/m³

Irritation and corrosion

Eye irritant

Sensitization

May cause an allergic skin irritation

Carcinogenicity

IARC: To the best of our knowledge, this compound has not been identified as a possible or potential human carcinogen by IARC.

Reproductive toxicity

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

Sleepiness, weight gain, mild temporary increase in serum prolactin, dizziness, weakness, restlessness, increased appetite, swelling of hands and feet, decreased blood pressure when standing, dry mouth and constipation. Mild temporary increases in glucose and liver enzyme levels and blood effects have been seen occasionally. Symptoms reported in olanzapine overdose include changes in heart rate and rhythm, slurred speech, reduced level of consciousness ranging from sedation to coma, convulsion, and muscle rigidity. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: XJ9007750

12. ECOLOGICAL INFORMATION

Toxicity

Rainbow trout	96-hour median lethal concentration: 1.74 mg/L
Fathead minnow (<i>P. promelas</i>)	33-day no observed effect concentration: 11 micrograms/L
Fathead minnow (<i>P. promelas</i>)	33-day lowest observed effect concentration: 27 micrograms/L
<i>Daphnia magna</i>	48-hour median effective concentration: 8.0 mg/L
<i>Daphnia magna</i>	21-day median effective concentration (survival): > 1004 micrograms/L
<i>Daphnia magna</i>	21-day median effective concentration (reproduction): 599 micrograms/L
<i>Daphnia magna</i>	21-day no observed effect concentration: 27 micrograms/L
<i>Daphnia magna</i>	21-day lowest observed effect concentration: 66 micrograms/L
Green algae (<i>S. capricornutum</i>)	median effective concentration: >14.1 mg/L (average specific growth rate)
Microorganisms:	
fungus (<i>Chaetomium globosum</i>):	MIC = 400 mg/L
mold (<i>Aspergillus flavus</i>):	MIC = 1000 mg/L
soil bacteria (<i>Comamonas acidovorans</i>):	MIC > 1000 mg/L
N-fixing bacteria (<i>Azotobacter chroococcum</i>):	MIC > 1000 mg/L
blue-green algae (<i>Nostoc</i> sp.):	MIC = 255 mg/L
Activated Sludge Respiration Inhibition	median effective concentration: >100 mg/L

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

Moderately toxic to fish and invertebrates. No more than slightly toxic to green algae. Practically non-toxic to microorganisms. No volatility expected. Low potential to bioconcentrate in aquatic organisms. Persistence in the environment not expected due to biodegradation and hydrolysis.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (Olanzapine)
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Olanzapine)
Marine pollutant: No

IATA

UN-Number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (Olanzapine)

15. REGULATORY INFORMATION**DSL Status**

Product is not on the Canadian DSL or NDSL list.

WHMIS Classification

D1B Toxic material causing immediate and
D2B Serious toxic effects

Toxic by ingestion
Moderate eye irritant
Sensitizer

EU Regulations**EC Classification**

Xi (Irritant)

Risk Phrases

R 36/38 - Irritating to eyes and skin.

R 43 - May cause sensitization by skin contact.

R 51 - Toxic to aquatic organisms.

Safety Phrases

S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

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.

9/22/2011