Lilly

SAFETY DATA SHEET

1. Identification

Product identifier Relprevv™

Other means of identification

VL7635, VL7636, QA509E, QA449S, VL7637, DT7635 **Item Code**

CAS number 221373-18-8 Depot-OPM **Synonyms** LY Number LY170053 **LSN Number** 426906

Recommended use Pharmaceutical Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Eli Lilly and Company **Address** Lilly Corporate Center Indianapolis, IN 46285

United States

Telephone Phone: +1-317-276-2000

lilly sds@lilly.com E-mail

CHEMTREC: **Emergency phone number** +1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Serious eye damage/eye irritation Category 2B Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 2 (Blood)

OSHA defined hazards Combustible dust

Label elements





Signal word Warning

Hazard statement

May form combustible dust concentrations in air.

May cause an allergic skin reaction. H317

Harmful if swallowed. H302 Causes eye irritation. H320

May cause damage to organs (Blood) through prolonged or repeated exposure. H373

May cause drowsiness or dizziness. H336

Precautionary statement

Prevention

Avoid breathing dust. P261

Wash thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271

Contaminated work clothing should not be allowed out of the workplace. P272 Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

Material name: Relprevv™ SDS US

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301 + P310 Rinse mouth. P330 P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P338 and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. P337 + P313 IF ON SKIN: Wash with plenty of water. P302 + P352 If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 P304 + P340 + IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical P312 assistance if you feel unwell. Take off contaminated clothing and wash it before reuse. P362 + P364

Storage

Store locked up. P405

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Olanzapine Pamoate Monohydrate	Depot-OPM	221373-18-8	100

4. First-aid measures

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately. Skin contact Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under Eye contact the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists. Ingestion Give several glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention if symptoms occur. Most important Irritating to eyes. May cause allergic skin reaction. Harmful if swallowed. May cause blood

symptoms/effects, acute and delaved

damage. May cause drowsiness or dizziness. 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.

Indication of immediate medical attention and special treatment needed

There is no specific antidote for olanzapine. Induction of emesis is not recommended. Standard procedures for management of overdose may be indicated (i.e. gastric lavage, administration of activated charcoal). The concomitant administration of activated charcoal was shown to reduce the oral bioavailability of olanzapine by 50 to 60%. Symptomatic treatment and monitoring of vital organ function should be instituted according to clinical presentation, including treatment of hypotension and circulatory collapse and support of respiratory function. Do not use epinephrine, dopamine, or other sympathomimetic agents with beta-agonist activity since beta stimulation may worsen hypotension.

General information

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

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water. Carbon dioxide (CO2). Dry chemical.

None known.

Specific hazards arising from the chemical

Hazardous decomposition products formed under fire conditions.

Special protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective clothing.

General fire hazards Dust may form explosive mixture with air.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe dust. See Section 8 of the SDS for Personal Protective Equipment.

Material name: Relprevv™ SDS US

Methods and materials for containment and cleaning up

Collect spill using a vacuum cleaner with a HEPA filter. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

7. Handling and storage

Precautions for safe handling

Keep formation of airborne dusts to a minimum. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Use only with adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

Lilly (LEG) Material	Туре	Value	Form	
Olanzapine Pamoate Monohydrate (CAS 221373-18-8)	STEG (15min)	114 ug/m3	(Olanzapine)	
	TWA (12hrs)	38 ug/m3	(Olanzapine)	
	TWA (8hrs)	50 ug/m3	(Olanzapine)	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Open handling is not recommended. Use appropriate control measures such as fume hood,

ventilated enclosure, local exhaust ventilation, or down-draft booth.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear goggles/face shield.

Skin protection

Chemical-resistant gloves and impermeable body covering to minimize skin contact. **Hand protection** Other Chemical-resistant gloves and impermeable body covering to minimize skin contact. Respiratory protection

If the applicable occupational exposure level (OEL) is anticipated to be exceeded, wear an approved respirator with sufficient protection factor to control exposure below the OEL.

General hygiene considerations

Engineering controls should be used as the primary means to control workplace exposures. Follow good workplace hygiene practices such as washing hands after handling this material.

9. Physical and chemical properties

Appearance

Solid. Physical state **Form** Powder Yellow Color Odor Odorless Not available. Odor threshold Not available. Hq

Melting point/freezing point 437 - 473 °F (225 - 245 °C) Decomposes

Initial boiling point and boiling

range

Not available.

Not applicable. Flash point **Evaporation rate** Not available.

Flammability (solid, gas) Not a flammable solid. (OJEC guideline, Test A.10)

Upper/lower flammability or explosive limits

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available. Not available. Relative density

Solubility(ies)

Insoluble. Solubility (water)

Material name: Relprevv™ SDS US Solubility (other) Dimethyl Sulfoxide (DMSO): Soluble

Acetonitrile: Slightly soluble Ethanol: Practically insoluble Methanol: Practically insoluble

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive.

Molecular formula C23 H16 O6 . C17 H20 N4 S . H2 O

Molecular weight 718.83 g/mol Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity Not water reactive.

Chemical stability This material should not be exposed to temperatures above 135°C (275°F). This temperature is

based on a laboratory test (ARC) and assumes near atmospheric pressures and quantities of less

than 500 kg (1100 lb) or 208 L (55 gal).

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Hazardous decomposition products formed under fire conditions.

11. Toxicological information

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Product Species Test Results

Relprevv[™] (CAS 221373-18-8)

Acute Dermal

LD50 Rabbit > 200 mg/kg (Olanzapine)

Inhalation

LC0 Rat > 880 mg/m3, 4 h (Olanzapine)

Oral

LD50 Monkey > 100 mg/kg (Olanzapine)

Rat 407 mg/kg (calculated)

177 mg/kg (Olanzapine)

Skin corrosion/irritation Rabbit: No irritation. (Olanzapine)

Based on available data, the classification criteria are not met.

Serious eye damage/eye

irritation

Rabbit: Irritating. (Olanzapine)

Respiratory or skin sensitization

Respiratory sensitization Did not cause sensitization on laboratory animals. (Olanzapine)

Based on available data, the classification criteria are not met.

Skin sensitization Did not cause sensitization on laboratory animals.

Confirmed cases of allergic contact dermatitis have been reported. Symptoms have included rash with redness, swelling, and scaling of the affected skin areas. Positive reactions have been verified

by patch testing with olanzapine (0.1%). (Olanzapine)

Germ cell mutagenicity Result in genetic toxicity assays (in vitro and in vivo): Negative (Olanzapine)

Based on available data, the classification criteria are not met.

Material name: Relprevv™ sps us

Carcinogenicity Not listed by IARC, NTP, ACGIH or OSHA.

Based on results of studies in rats and mice, it was concluded that olanzapine is not carcinogenic. Significant findings in oncogenicity studies were limited to an increased incidence of mammary adenocarcinomas in female rats and mice. This is a common finding in rodents treated with agents that increase prolactin secretion and has no direct significance for humans. Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Decreased mating activity due to sedation. Decreased fertility, abnormal reproductive cycles, and reproductive tissue changes can be linked to elevations of prolactin levels. The clinical effects of such elevations are unknown for humans. Embryo and fetal toxicity occurred only at maternally toxic doses. (Olanzapine)

Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Animal studies have reported the following effects: Central nervous system effects. Heart effects.

Blood effects. (Olanzapine)

Aspiration hazard

No aspiration toxicity classification

Further information

Adverse effects associated with therapeutic use of olanzapine include 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.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. All data is for Olanzapine.

Product		Species	Test Results
Olanzapine Pamoate	Monohydrate (CAS	221373-18-8)	
	EC50		> 100 mg/l, 3 h Sewage microorganisms (Respiration inhibition)
		Selenastrum capricornutum (new name Pseudokirchnerella subca	> 14.1 mg/l (average specific growth rate)
	IC50		255 mg/l Isolated growth on agar (Microbial growth inhibition)
	NOEC		100 mg/l, 3 h Sewage microorganisms (highest concentration tested)
Other	EC50	Pseudokirchnerella subcapitata	> 14.1 mg/l, 14 d (average specific growth rate) (biomass)
	NOEC	Pseudokirchnerella subcapitata	1.7 mg/l, 14 d (based on initial concentration)
			0.9 mg/l, 14 d (based on mean measured concentrations)
Aquatic			
Crustacea	EC50	Daphnia magna	8 mg/l, 48 h
	NOEC	Daphnia magna	2.4 mg/l, 48 h
			0.027 mg/l, 21 d (chronic growth) (reproduction) (survival)
Fish	LC50	Rainbow Trout	1.74 mg/l, 96 h
	NOEC	Fathead minnow (Pimephales promelas)) 0.011 mg/l
		Rainbow Trout	0.43 mg/l, 96 h

A LAEG is the maximum allowable concentration at the point of application that is expected to result in no appreciable risk to populations of aquatic and terrestrial organisms, or to human health.

Material name: Relprevv™ sps us

LILLY AQUATIC EXPOSURE GUIDELINES:

Olanzapine Pamoate Monohydrate

Acute LAEG (at the edge of the acute mixing zone): 67 µg/l Chronic LAEG (at the edge of the chronic mixing zone): 3.4 µg/l

Drinking water LAEG (at the point where surface water is taken for drinking water):

1.1 µg/l

Persistence and degradability Hydrolysis half-life at 25 C (days): 65, 76, 78 (pH 5, 7, 9)

Ready hydrolysis (% hydrolyzed after 28 days at 25 C): 31.15, 24.87, 61.85 (pH 5, 7, 9)

Biodegradation in sludge (28 days):

DT50: 7.4 days 1.45% CO2 evolution 6.5% olanzapine remained

Degradation in aquatic sediment (100 days):

Aerobic systems: 4.3% CO2 evolution

DT90 from overlying water: 2.6 days

Anaerobic systems: 0.3% CO2 evolution

DT90 from overlying water: 14.6 to 17.2 days

Bioaccumulative potential

Log Kow: </= 2.1 Partition coefficient n-octanol / water (log Kow)

0.3, (pH 5) 1.7, (pH 7) 2.1, (pH 9)

Mobility in soil No data available. Other adverse effects Not available.

13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions**

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

UN number

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Olanzapine Pamoate Monohydrate)

Transport hazard class(es)

9 **Class** Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 9L

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN3077 UN number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Olanzapine Pamoate **UN proper shipping name**

Monohydrate)

Not available.

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant Yes F-A. S-F Special precautions for user Not available.

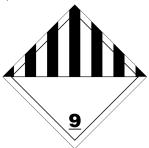
Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

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Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard

Combustible dust

categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

16. Other information, including date of preparation or last revision

Issue date 02-04-2022

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No

Revision date 02-10-2023

Version # 02

List of abbreviations ACGIH: American Conference of Governmental Industrial Hygienists.

ARC: Accelerating Rate Calorimetry.

DOT: Department of Transportation (49 CFR 172.101)

EC50: Effective Concentration 50%.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HEPA: High Efficiency Particulate Air.

IARC: International Agency for Research on Cancer. IATA: International Air Transport Association.

IMDG Code: International Maritime Dangerous Goods Code.

LAEG: Lilly Aquatic Exposure Guideline.

LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%. LEG: Lilly Exposure Guideline.

NIOSH: National Institute for Occupational Safety & Health.

NOEC: No observed effect concentration. NTP: National Toxicology Program.

OSHA: Occupational Safety & Health Administration.

STEG: Short Term Exposure Guideline.

TWA: Time Weighted Average

Disclaimer As of the date of issuance, we are providing available information relevant to the handling of this

material in the workplace. All information contained herein is offered with the good faith belief that

it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS

FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this

material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature

which may accompany the finished product.

For additional information contact:

Eli Lilly and Company Hazard Communication +1-317-651-9533

Revision information This document has undergone significant changes and should be reviewed in its entirety.

Material name: Relprevv™ sps us