LUPIN LIMITED

SAFETY DATA SHEET

Section 1: Identification

Material Identified uses of the substance or

mixture

Risperidone for ER Injectable Suspension

Pharmaceutical

Manufacturer Nanomi B.V.,

a Lupin Group Company, 7575 EJ, Oldenzaal, The Netherlands.

Distributed by Lupin Pharmaceuticals, Inc.

Baltimore, Maryland 21202

United States.

Section 2: Hazard(s) Identification

Health Do not use it until all safety precautions have been read and

understood.

Known hypersensitivity to risperidone or any excipients in risperidone

for extended-release injectable suspension.

Please refer to the product information/ Package insert for

appropriate consumer-specific information about this product when

used according to the physician's directions.

Environment Dispose of content and/or container in accordance with local,

regional, national, and/or international regulations.

Section 3: Composition/Information on Ingredients

Risperidone extended-release injectable suspension 25 mg, 37.5 mg, 50 mg.

Ingredients	CAS No.	Ingredients	CAS No.
Risperidone	106266-06-2	Polysorbate 20	9005-64-5
75/25 DL-lactide/glycolide copolymer	26780-50-7	Citric acid anhydrous	77-92-9
Sodium carboxymethyl cellulose	9004-32-4	Sodium Hydroxide NF	1310-73-2
Disodium Hydrogen Phosphate	10028-24-7	Water for Injection	-
Dihydrate			
Sodium chloride	7647-14-5	-	-

^{*} The exact percentage composition of this mixture has been withheld as a trade secret.

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Section 4: First-Aid Measures

Inhalation Move the victim into fresh air. Apply artificial respiration if the victim is not

breathing. If breathing is difficult, give oxygen. Get medical attention.

Skin contact Take off contaminated clothing. Wash the exposed parts of the body with plenty

of soap and water. Get medical attention if irritation persists.

Eye contact Rinse immediately with plenty of water for at least 15 minutes keeping evelids

open. Get medical attention, if irritation persists.

If swallowed Never give fluids if the patient is unconscious. If the person is conscious, rinse

> the mouth with water. In case of spontaneous vomiting be sure that vomitus can freely drain due to the danger of suffocation. Do not induce vomiting. Get

medical attention.

Section 5: Fire-Fighting Measures

Specific hazards during firefighting None known.

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide. Do not use a water jet.

Special Firefighting Procedures During all firefighting activities, wear appropriate protective equipment,

including self-contained breathing apparatus.

Hazardous Combustion Products Carbon oxides, Nitrogen oxides, Hydrogen fluoride.

Section 6: Accidental Release Measures

Personal Precautions Ventilate confined areas. Avoid contact with skin and eves. Use rubber

gloves and safety goggles. Emergency responders use suitable

personal protective equipment.

Environmental Precautions Prevent spillage on the floor/ground. Inform respective authorities in

case of seepage into the water course or sewage system.

Clean-up Methods Absorb spills with inert absorbent material and transfer them into a

labeled container for disposal. Wash spill site and ventilate area.

Section 7: Handling and Storage

Handling Keep away from heat/sparks/open flames/hot surfaces. Protect from

light. Keep out of the reach of children.

Storage The entire dose pack should be stored in the refrigerator (36°-46°F; 2°-

8°C) and protected from light.

If refrigeration is unavailable, risperidone for extended-release injectable suspension can be stored at temperatures not exceeding 77°F (25°C) for no more than 7 days prior to administration. Do not expose unrefrigerated products to temperatures above 77°F (25°C).

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Section 8: Exposure Controls/Personal Protection

Engineering Measures/Controls: Ensure adequate ventilation, especially in enclosed spaces.

Personal Protective Equipment: Respiratory: Respiratory protection is generally not needed during

routine conditions of use of this product.

Eye/Face: Avoid contact with the eye. No special controls or personal

protection are required under conditions of intended use.

Skin/Body: No special personal protection is required under

conditions of intended use.

Section 9: Physical and Chemical Properties

HOW SUPPLIED

Risperidone for extended-release injectable suspension is available in dosage strengths of 25 mg, 37.5 mg or 50 mg risperidone. It is provided as a single-dose pack, consisting of a vial containing the risperidone microspheres, a pre-filled syringe containing 2 mL of diluent for risperidone for extended-release injectable suspension, a vial adapter, and two Terumo SurGuard® 3 Needles for intramuscular injection (a 21 G UTW 1-inch needle with needle protection device for deltoid administration and a 20 G TW 2-inch needle with needle protection device for gluteal administration).

25-mg vial/kit (NDC 70748-270-13): 78 mg (equivalent to 25 mg of risperidone) of an off-white to slightly yellow powder provided in a vial with a pink flip-off cap (NDC 70748-270-11).

37.5-mg vial/kit (NDC 70748-271-13): 116 mg (equivalent to 37.5 mg of risperidone) of an offwhite to slightly yellow powder provided in a vial with a green flip-off cap (NDC 70748-271-11).

50-mg vial/kit (NDC 70748-272-13): 152 mg (equivalent to 50 mg of risperidone) of an off-white to slightly yellow powder provided in a vial with a blue flip-off cap (NDC 70748-272-11).

Section 10: Stability and Reactivity

Stability Stable under recommended storage conditions.

Reactivity None known.
Hazardous reactions None known.

Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. Protect from

light.

Hazardous decomposition

products

Carbon oxides, Nitrogen oxides, Hydrogen fluoride.

Section 11: Toxicological Information

Inhalation Acute inhalation toxicity: None known.

Skin Contact Acute Immediate - None known.

Chronic (Delayed) - None known.

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Ingestion Acute Immediate - Not expected to be an exposure route.

Chronic (Delayed) - None known.

Eye Contact Acute Immediate - None known

Chronic (Delayed) - None known

Carcinogenicity Carcinogenesis – Oral

Risperidone was administered in the diet at doses of 0.63, 2.5, and 10 mg/kg for 18 months to mice and for 25 months to rats. These doses are equivalent to approximately 0.2, 0.75, and 3 times (mice) and 0.4, 1.5, and 6 times (rats) the MRHD of 16 mg/day, based on mg/m2 body surface area. A maximum tolerated dose was not achieved in male mice.

Carcinogenesis - Intramuscular

Risperidone was evaluated in a 24-month carcinogenicity study in which SPF Wistar rats were treated every 2 weeks with intramuscular (IM) injections of either 5 mg/kg or 40 mg/kg of risperidone. These doses are 1 and 8 times the MRHD (50 mg) on a mg/m2 basis. A control group received injections of 0.9% NaCl, and a vehicle control group was injected with placebo microspheres. There was a significant increase in pituitary gland adenomas, endocrine pancreas adenomas, and adrenomedullary pheochromocytomas at 8 times the IM (intramuscular) MRHD on a mg/m2 basis. The incidence of mammary gland adenocarcinomas was significantly increased in female rats at both doses (1 and 8 times the IM (intramuscular) MRHD on a mg/m2 basis). A significant increase in renal tubular tumors (adenoma, adenocarcinomas) was observed in male rats at 8 times the IM (intramuscular) MRHD on a mg/m2 basis. Plasma exposures (AUC) in rats 39 were 0.3 and 2 times (at 5 and 40 mg/kg, respectively) the expected plasma exposure (AUC) at the IM (intramuscular) MRHD.

Mutagenesis

No evidence of mutagenic or clastogenic potential for risperidone was found in the *in vitro* tests of Ames gene mutation, the mouse lymphoma assay, rat hepatocyte DNA-repair assay, the chromosomal aberration test in human lymphocytes, Chinese hamster ovary cells, or in the *in vivo* micronucleus test in mice, and the sex-linked recessive lethal test in *Drosophila*. In addition, no evidence of mutagenic potential was found in the *in vitro* Ames reverse mutation test for risperidone for extended-release injectable suspension.

Impairment of Fertility

Oral risperidone (0.16 to 5 mg/kg) impaired mating, but not fertility, in reproductive studies at doses 0.1 to 3 times the oral maximum recommended human dose (MRHD of 16 mg/day) based on mg/m2 body surface area. The effect appeared to be in females, since impaired mating behavior was not noted in the male fertility study. In a subchronic study in Beagle dogs in which oral risperidone was administered at doses of 0.31 to 5 mg/kg, sperm motility and concentration were decreased at doses 0.6 to 10 times the oral MRHD on a mg/m2 basis. Dose-related decreases were also noted in serum testosterone at the same doses. Serum testosterone and sperm values partially recovered but decreased after treatment was discontinued. A no-effect dose could not be determined in either rat or dog.

Section 12: Ecological Information				
Eco toxicity	Ecology-general May cause long-term adverse effect to aquatic environment. Acute aquatic toxicity Data not available.			
Persistence and biodegradability	The substance is not rapidly biodegradable.			

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Section 13: Disposal Considerations

Dispose of material according to federal, state, and local disposal regulations.

Section 14: Transport Information

IATA/ICAO - Not Regulated		
IATA Proper Shipping Name	:	N/A
IATA UN/ID No	:	N/A
IATA Hazard Class	:	N/A
IATA Packaging Group	:	N/A
IATA Label	:	N/A

IMDG - Not Regulated

IMDG Proper Shipping Name:N/AIMDG UN/ID No:N/AIMDG Hazard Class:N/AIMDG Flash Point:N/AIMDG Label:N/A

DOT - Not Regulated

DOT Proper Shipping Name : N/A
DOT UN/ID No : N/A
DOT Hazard Class : N/A
DOT Flash Point : N/A
DOT Packing Group : N/A
DOT Label : N/A

Section 15: Regulatory Information

This Section Contains Information relevant to compliance with other Federal and/or state laws.

Section 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. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Lupin shall not be held liable for any damage resulting from handling or from contact with the above product. Lupin reserves the right to revise this SDS.

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