Safety Data Sheet

According to Appendix D, Release 1.0

OSHA Hazard Revision 01/05/2025

Communication Standard Date of issue 01/05/2025

29 CFR §1910.1200



1 Identification of the substance

1.1 Product identifier

Identification of the

LGD-4033 Ligandrol

substance

Additional identification 4-[(2R)-2-[(1R)-2,2,2-Trifluoro-1-hydroxyethyl]-1-pyrrolidinyl]-2-(trifluoromethyl)

benzonitrile

A registration number is not available for this substance as the substance or its REACH No.

uses are exempted from registration or the annual tonnage does not require a

registration.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses reagent for life science

Restriction on use not for food or drug use, for laboratory use only

1.3 Details of the supplier of the safty data sheet

Company InfinityChem

> 16445 N 91st St, Suite 101 Scottsdale, AZ 85260 USA

https://www.8chem.com Website Mail sales@8chem.com

1.4 Emergency telephone number

Monday - Friday 9 AM to 5 PM (PST): +1-844-269-2436 Phone

2 Hazards identification

2.1 Classification of the substance or mixturet

Physical Hazards

not classified

Health Hazards

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

acute toxicity (Category 4)

Specific target organ toxicity, single exposure (Category 3), H335

Enviromental Hazards

not classified

2.2 Label elements

Regulatory List

EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol

GHS07 exclamation mark

Pictogram



Signal Word

Warning Warning

Hazard Statement

H302 Harmful if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statement



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P270	Do no eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301	IF SWALLOWED:
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304	IF INHALED:
P340	Remove casualty to fresh air and keep at rest inaposition comfortable for breathing.
P305	IF IN EYES:
P351	Rinse cautiously with water for several minutes.
P338	Remove contact lenses, if present and easy to do.Continue rinsing.
P403	Store in a well-ventilated place.
P233	Keep container tightly closed.
P501	Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

Substance name LGD-4033 Ligandrol

Synonyms 4-[(2R)-2-[(1R)-2,2,2-Trifluoro-1-hydroxyethyl]-1-pyrrolidinyl]-2-(trifluoromethyl)

benzonitrile

Cas No. [1165910-22-4] Formula $C_{14}H_{12}F_6N_2O$

4 First aid measures

4.1 Description of first aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Hints for Physician: Symptoms

See Section 11 for additional information on health hazards

4.3 Indication of any immediate medical attention and special treatment needed

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing Media

Suitable

foam, dry extinguishing powder, carbon dioxide (CO2), water spray jet

5.2 Special hazards arising from the substance or mixturet

Wear a self-contained breathing apparatus and chemical protective clothing.

Hazards During Fire-Fighting

toxic fumes

5.3 Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

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6.1 Personal Precautions, potective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

6.2 Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3 Methods and material for containment and cleaning up

not available

6.4 Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

7.1 Precautions for safe handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

store at <-15°C for long term, store at 10°C - 25°C for short term

Storage condition

keep dry, keep under inert gas: Nitrogen

Storage Requirements

Keep away from incompatible substances. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

7.3 Specific end use(s)

8 Exposure controles/personal protection

8.1 Exposure limit values

Does not contain any substances with occupational exposure limits.

8.2 Exposure controles

Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.

8.3 Personal Protective Equipment

Respiratory Protection

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties

9.1 Information on basic Physical and chemical color properties

Color

white, beige

Form

powder

9.2 Other information

Molar Mass

338.25 g/mol

10 Stability and reactivity

10.1 Reactivity

No Data Available

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10.2 Chemical stability

No Data Available

10.3 Possibility of hazardous reaction

No Data Available

10.4 Conditions to Avoid (SDS)

incompatible materials, moisture, air

10.5 Incompatible materials

strong oxidizers

10.6 Hazardous decomposition products

nitrogen oxides (NOx), carbon dioxide (CO2), hydrogen fluoride, carbon monoxide

11 Toxicological information

11.1 Information on toxicological effects

Other Relevant Toxicity Information

We are not aware of any toxicology data.

12 Ecological Information

12.1 Toxicity

12.1 Toxioity						
Acute toxicity versus	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l	
Fishing	No data available	No data available	No data available	No data available	No data available	
Acute toxicity in aquatic	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l	
plants	No data available	No data available	No data available	No data available	No data available	
Acute toxicity versus Daphnia and others aquatic	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l	
invertebrates	No data available	No data available	No data available	No data available	No data available	

12.2 Persistence and degradablity

Remarks : no data available

12.3 Bioaccumulative potential
Remarks : no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13 Disposal considerations

Advice on Disposal and Packaging

Advice on Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging not available

14 Transport information

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	Road Transport(ADR/GGVS)	Air Transport(IATA)
14.1 UN number	Not Dangerous Goods	Not Dangerous Goods
14.2 UN proper shipping name	Not Dangerous Goods	Not Dangerous Goods
14.3 Transport hazard class(es)	Not Dangerous Goods	Not Dangerous Goods
14.4 Packing group	Not Dangerous Goods	Not Dangerous Goods
(es)	Not Dangerous Goods	Not Dangerous Goods
14.6 Special precautions for user	Not applicable	Not applicable
14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code	Not applicable	Not applicable

15 Other regulations

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixturet

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations

Toxins

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List

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None of the ingredients are listed or exempt. not available

LGD-4033	Subject to Authorization	on Certain Dangerous	Substances of Very High Concern (SVHC)
Component	REACH (1907/2006) - Annex XIV - Substances	REACH (1907/2006) - Annex XVII - Restrictions	REACH Regulation (EC 1907/2006) article 59 - Candidate List of

15.2 Chemical safty assessment

No chemical safety assessment has been carried out.

16 Additional information

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