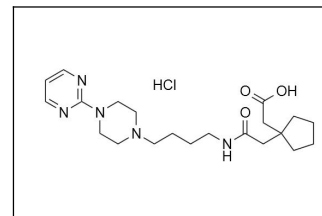


SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier	Buspirone EP Impurity E
Catalog number	B0024.15
CAS number	257877-46-6
Synonyms	2-{1-[[{4-[4-(pyrimidin-2-yl)piperazin-1-yl]butyl}carbamoyl)methyl]cyclopentyl}acetic acid hydrochloride
Chemical name	Buspirone Open-Ring Impurity
Product uses	To be used only for scientific research and development. Not for use in humans or animals.
Manufacturer/Supplier information	
Company name	Aozeal Certified Standards(HK) Co., Limited
Address	Suite 603, 6/F Hang Pont Commercial Building 31 Tonkin Street, Cheung Sha Wan, Kowloon, Hong Kong
Telephone	+85253499607
Email	info@aozeal.com
Website	www.aozeal.com
Emergency telephone number	+1 (510) 225-4077



2. HAZARDS IDENTIFICATION

Physical hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Classification of the substance or mixture and label elements	
GHS hazards classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)	Acute Toxicity, Oral (Category 5)
GHS hazards identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)	
Signal word	None
GHS hazard statements	None
GHS precautionary statements	Not a hazardous substance according to GHS.

Unclassified hazards/Hazards not otherwise classified No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Buspirone Open-Ring Impurity
Common name and synonyms	2-{1-[[{4-[4-(pyrimidin-2-yl)piperazin-1-yl]butyl}carbamoyl)methyl]cyclopentyl}acetic acid hydrochloride
Molecular formula:	C ₂₁ H ₃₃ O ₃ N ₅ •HCl

Molecular weight: 439.98
CAS #: 257877-46-6
Mixtures : Not a mixture.

4. FIRST AID MEASURES

General advice If medical attention is required, show this safety data sheet to the doctor.

Inhalation If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

Skin contact Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

Eye contact Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

Most important symptoms and effects, both acute and delayed Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.

Indication of any immediate medical attention and special treatment needed No data available.

5. FIREFIGHTING MEASURES

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

Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides

Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

Further information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear respiratory protection. Avoid dust formation. Avoid breathing vapours. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Method and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage Store in tightly closed container in a dry and well-ventilated place. This material should be handled and stored per label and COA instructions to ensure product integrity.

Specific end uses For laboratory research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glove box). No open handling.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
Hand protection	Wear nit-rite or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Consider double gloves.
Other	Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task.
Respiratory protection	Chose respiratory protection appropriate to the task and the level of existing engineering controls. Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerwear and head cover for spill cleanup.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment. Pharmacological effects may be seen with occupational exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White Solid.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	No data available
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility	CH ₃ CN+H ₂ O.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
Other information	Not available.

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Not available.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Oral LD50: Not available. Inhalation LC50: Not available. Dermal LD50: Not available.
Skin corrosion/Irritation	Not available.
Serious eye damage/Irritation	Not available.
Respiratory or Skin sensitization	Not available.
Carcinogenicity	Not available.
IARC monographs. Overall evaluation of carcinogenicity	Not listed.
OSHA specifically regulated Substances (29 CFR 1910.1001-1050)	Not regulated.
US. national toxicology program (NTP) report on carcinogens	Not listed.
Reproductive toxicity/Teratogenicity	Not available.

Single target organ toxicity -	Not available.
Single exposure	
Single target organ toxicity -	Not available.
Repeated exposure	
Aspiration hazard	Not available.
Potential health effects and routes of exposure	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Signs and symptoms of exposure	The most important known symptoms and effects are described in the labeling To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.
Additional information	RTECS: Not available.

12. ECOLOGICAL INFORMATION

Eco-toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degrade ability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste treatment methods	Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.
Contaminated packaging	Dispose of as above.
Other considerations	Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

UN number	ADR/RID: -	IMDG: -	IATA: -
------------------	------------	---------	---------



UN proper shipping name	ADR/RID: Not dangerous goods		
	IMDG: Not dangerous goods		
	IATA: Not dangerous goods		
Transport hazard class(es)	ADR/RID: -	IMDG: -	IATA: -
Packaging group	ADR/RID: -	IMDG: -	IATA: -
Environmental hazards	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
Special precautions for user	No data available.		

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of OSHA 1910.1200 (US), WHMIS (Canada) and EU Regulation Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

United States

TSCA Status: This product is not listed on the US EPA TSCA.

Canada

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL.

European Union

ECHA Status: This product or a component is registered with the EU ECHA.

Chemical safety assessment No data available.

16. OTHER INFORMATION

Original publication date 10/28/2024

Latest revision date (If Revised)

SDS expiry date 10/27/2027

List of abbreviations

LD50 Median lethal dose of a substance required to kill 50% of a test population.

LC50 Medial lethal concentration of a substance required to kill 50% of a test population.

IARC International Agency for Research on Cancer

NTP National Toxicology Program

RTECS Registry of Toxic Effects of Chemical Substances

Further information Copy right 2018. Aozeal Certified Standards Inc. Copies may be made for internal use only. The above information developed by Aozeal staff from sources considered reliable to the best of our knowledge, but is to be only used as a guide and has not been independently verified by Aozeal. Therefore, Aozeal cannot guarantee the accuracy of the information in these sources. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.