

SAFETY DATA SHEETS

According to the UN GHS revision 8

Version: 1.0 Creation Date: July 15, 2019 Revision Date: July 15, 2019

1.	Identification					
1.1	GHS Product identifier					
	Product name	Petunidin 3-O-galactoside chloride				
1.2	Other means of identification					
	Product number Other names	-				
1.3	Recommended use of the chemical and restrictions on use					
	Identified uses Uses advised against	Industrial and scientific research uses. no data available				
1.4	Supplier's details					
	Company Address Telephone Fax	Target molecule Corp. 36 Washington Street, Wellesley Hills, 1 (781) 999-4286 (781)-999-5354	MA 02481 USA			
1.5	Emergency phone number					
	Emergency phone number Service hours	(781)-999-5354 Monday to Friday, 9am-5pm (Standard	time zone: UTC/C	GMT +8 hours).		
2.	Hazard identification					
2.1	Classification of the substance or mixture					
	no data available					
2.2	GHS label elements, including precautionary statements					
	Pictogram(s) Signal word Hazard statement(s) Precautionary statement(s) Prevention Response Storage Disposal	no data available no data available no data available no data available no data available no data available no data available				
2.3	Other hazards which do not result in classification					
	no data available					
3.	Composition/information or	ingredients				
3.1	Substances					
	Chemical name Petunidin 3-O-galactoside chloride	Common names and synonyms Petunidin 3-O-galactoside chloride	CAS number 28500-02-9	EC number no data available	Concentration 100%	
4.	First-aid measures	· · · · · · · · · · · · · · · · · · ·	•			

4.1 Description of necessary first-aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with water. Consult a doctor immediately.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison

Control Center immediately

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Wear personal protective equipment.

5. Fire-fighting measures

5.1 Extinguishing media

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

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use sparkproof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection. Wear tightly fitting safety goggles with side-shields conforming to EN 486(EU) or NIOSH (US). Skin protection. Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. Respiratory protection. If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator. Thermal hazards. no data available

9. Physical and chemical properties

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Physical state	solid
Odour	no data available
Melting point/ freezing point	no data available
Boiling point or initial boiling point and boiling range	no data available
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water	no data available
Vapour pressure	no data available
Density and/or relative density	no data available

	Relative vapour density Particle characteristics	no data available no data available				
10.	Stability and reactivity					
10.1	Reactivity					
	no data available					
10.2	Chemical stability					
	Stable under proper conditions					
10.3	Possibility of hazardous reactions no data available					
10.4						
10.5	Incompatible materials					
	no data available					
10.6	Hazardous decompositio	n products				
	no data available					
11.	Toxicological informati	on				
	Acute toxicity					
	no data available					
	Skin corrosion/irritation					
	no data available					
	Serious eye damage/irritation					
	no data available					
	Respiratory or skin sensitizatio	n				
	no data available					
	Germ cell mutagenicity					
	no data available					
	Carcinogenicity no data available					
	Reproductive toxicity no data available					
	STOT-single exposure					
	no data available					
	STOT-repeated exposure					
	no data available					
	Aspiration hazard					
	no data available					
12.	Ecological information					
12.1	Toxicity					
	no data available					
12.2	Persistence and degradab	oility				
	no data available					
12.3	Bioaccumulative potentia	al				
	no data available					

- 12.4 Mobility in soil no data available
- 12.5 Other adverse effects

no data available

Disposal considerations 13.

13.1 **Disposal methods**

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.	Transport informatio	n				
14.1	UN Number					
	no data available					
14.2	UN Proper Shipping Name					
	no data available					
14.3	Transport hazard class	(es)				
	no data available					
14.4	Packing group, if applicable					
	no data available					
14.5	Environmental hazards	8				
	ADR/RID: No	IMDG: No	IATA: No			
14.6	Special precautions for no data available	·user				
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					
	no data available					
15.	Regulatory information					
15.1	Safety, health and environmental regulations specific for the product in question					
	Not Listed.					
16.	Other information					
	Information on revision					
	Creation Date Revision Date	July 15, 2019 July 15, 2019				
	Abbreviations and acronyms					
	 CAS: Chemical Abstracts Service ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association TWA: Time Weighted Average STEL: Short term exposure limit LC50: Lethal Concentration 50% EC50: Effective Concentration 50% 					
	References					
	IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm IARC - International Agency for Research on Carcer, website: http://www.jarc.fr/ eChemPortal - The Global Portal to Information on Chemical Substances by					

Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/ eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp ERG -Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-577.jsp ECHA - European Chemicals Agency, website: https://echa.europa.eu/

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Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.