

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 23-Nov-2023

Revision Number 1

1. Identification		
Product identifier		
Product Name	rac Propranolol Beta-D-Glucuronide Sodium Salt	
Other means of identification		
Product Code(s)	TRC-P831810-10MG	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended use	Laboratory use	
Restrictions on use	Not to be used for human or animal consumption	
Details of the supplier of the safety data sheet		
Supplier Address		
VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA		
Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180 Email : Igcusa@Igcgroup.com		
Web : lgcstandards.com		
E-mail	sds-request@lgcgroup.com	
Emergency telephone number		
Emergency Telephone For Hazardous Materials or Dangerou Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970		

2. Hazard(s) identification



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OSHA HCS2012

TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

Classification

Classified according to OSHA.

Acute toxicity - Oral

Category 4

Hazards not otherwise classified (HNOC) Not applicable

Not applicable

Label elements

Warning

Hazard statements_____ Classified according to OSHA. Harmful if swallowed



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available.

3. Composition/information on ingredients

Substance



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OSHA HCS2012

TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

Formula

C22 H28 N Na O8

Chemical name	CAS No.	Weight-%	Trade secret
rac Propranolol b-D-Glucuronide Sodium Salt	-	100	*

4. First-aid	measures
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Description of first aid measures

-	
General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms and effects, both acute and delayed

information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.

Explosion data

Sensitivity to mechanical impact None.



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OSHA HCS2012

TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

Sensitivity to static discharge None.

Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
precautions for fire-fighters	Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits



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OSHA HCS2012

TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties Physical state Solid

Solid		
white; to; off-white		
No information available		
No information available		
Values		
No data available		
No data available		
Initial boiling point and boiling rangeNo data available		
No data available		
No data available		
No data available		
No data available		

Remarks • Method None known None known None known None known None known None known



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None known None known

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Revision date 23-Nov-2023

limits	
Lower flammability or explosive	No data available
limits	
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Other information	
Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	457.45
VOC content	No information available
Liquid Density	No information available
Duille dans alter	No information available

10. Stability and reactivity

Bulk density

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

No information available

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation

Specific test data for the substance or mixture is not available.



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Revision date 23-Nov-2023

Eye contact	Specific test data for the substance or mixture is not available.			
Skin contact	Specific test data for the substance or mixture is not available.			
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).			
Symptoms related to the physical, chemical and toxicological characteristics				
Symptoms	No information available.			
Acute toxicity				
Numerical measures of toxi No information available	city			

Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Skin corrosion/irritation	No information available.		
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		



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TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt		Revision date	23-Nov-2023	
Other adverse effects	No information available.			
Interactive effects	No information available.			
12. Ecological information				
Ecotoxicity	The environmental impact of this product has not been ful	lly investigated.		
Persistence and degradability	No information available.			
Bioaccumulation	There is no data for this product.			
Other adverse effects	No information available.			
13. Disposal considerations				
Disposal methods				

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
IATA	Not regulated
<u>IMDG</u>	Not regulated

15. Regulatory information



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TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

International Inventories

TSCA

Complies under research and development exemption or is regulated by a different government agency.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
rac Propranolol b-D-Glucuronide Sodium Salt	-	-	Unknown *

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL EINECS/ELINCS	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40



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TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend	to abbreviations and acronyms	used in the safety data s	heet	
Legend Section	on 8: Exposure controls/person	al protection		
TWA	TWA (time-weighted average)) STEL	STEL (Short Term	n Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation	
Agency for Toxi U.S. Environme European Food EPA (Environme Acute Exposure U.S. Environme U.S. Environme Food Research Hazardous Sub	stance Database iform Chemical Information Datab	try (ATSDR) w Database secticide, Fungicide, and R luction Volume Chemicals		



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TRC-P831810-10MG - rac Propranolol Beta-D-Glucuronide Sodium Salt

Revision date 23-Nov-2023

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note Disclaimer 23-Nov-2023 No information available.

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

End of Safety Data Sheet