

The Power to Question

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 03-Mar-2015 Version 1.1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Iberverin **Product Code** SC-205719

Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc. 10410 Finnell Street Dallas, TX 75220 831.457.3800 800.457.3801 scbt@scbt.com

Emergency telephone number

Chemtrec 1.800.424.9300 (Within USA) +1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Acute toxicity - Oral Category 4 Acute toxicity - Dermal Category 4 Acute toxicity - Inhalation (Dusts/Mists) Category 3

Skin corrosion/irritation Category 1 Sub-category B

Serious eye damage/eye irritation Category 1

Label elements

Signal word Hazard statements

Toxic if inhaled

Causes severe skin burns and eye damage

Symbols/Pictograms

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling

Danger

HARMFUL IF SWALLOWED Harmful in contact with skin

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray



Precautionary Statements - Response Immediately call a POISON CENTER or doctor/physician

> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

Immediately call a POISON CENTER or doctor/physician Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if

you feel unwell Rinse mouth

Do NOT induce vomiting

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Dispose of contents/container to an approved waste disposal

plant

Hazards not otherwise classified (HNOC)

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Precautionary Statements - Storage

Precautionary Statements - Disposal

Not applicable

Other Information

Health hazards **NFPA**

Flammability 1 Stability 0 Physical and chemical

properties



HMIS

Health hazards Flammability Physical hazards Personal protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 505-79-3 Molecular Weight 147.26 Formula C5H9NS2

Chemical Name	CAS No	Weight %	Oral LD50	Dermal LD50	Inhalation LC50		
Iberverin	505-79-3	>98	-	-	-		

4. FIRST AID MEASURES

First Aid Measures

General advice Immediate medical attention is required.

Eve contact Keep eye wide open while rinsing. Immediate medical attention is required. Rinse

immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub

affected area.

Immediate medical attention is required. Wash off immediately with soap and plenty of Skin Contact

water while removing all contaminated clothes and shoes.

Remove to fresh air Call a physician or poison control center immediately If not breathing, Inhalation

give artificial respiration If breathing is difficult, give oxygen

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink Ingestion

plenty of water. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison

control center immediately.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.



Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media None.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating and toxic gases and vapors. In the event of fire and/or

explosion do not breathe fumes. Hazardous combustion products Hydrogen sulfide. Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

No information available. No information available.

Protective equipment and precautions for firefighters

for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take Methods for cleaning up

up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces

with water.

7. HANDLING AND STORAGE



Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation,

wear suitable respiratory equipment. Use only with adequate ventilation and in closed

systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers. Store at -20 °C.

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

> Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield. Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eve/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid

Appearance No information available Odor Pungent May be unpleasant

Property Values

No information available

Melting point/freezing point 8.05 °C 254 °C Boiling point

Flash point 110 °C CC (closed cup)

Density 1.10 g/mL

Evaporation rate No information available Upper flammability limits No information available Lower flammability limit No information available

Vapor pressure 0.0

Vapor density No information available

Specific gravity 1.11

Water solubility No information available



Solubility in other solvents No information available

Partition coefficient 2 37

Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity No information available Explosive properties No information available Oxidizing properties No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing. Hazardous polymerization No information available.

Conditions to avoid Exposure to air or moisture over prolonged periods.

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Incompatible materials Thermal decomposition can lead to release of irritating and toxic gases and vapors. **Hazardous Decomposition Products**

Hydrogen sulfide. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation No data available. Eye contact No data available. Skin Contact No data available. Ingestion No data available.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects.

Numerical measures of toxicity - Product Information

Unknown acute toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 500 mg/kg ATEmix (dermal) 1100 ma/ka ATEmix (inhalation-dust/mist) 0.5 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability No information available. No information available. Bioaccumulation No information available. Mobility



13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

US EPA Waste Number D002

14. TRANSPORT INFORMATION

DOT

UN/ID no UN2922 **Hazard Class** 8 Subsidiary class 6.1 Packing Group Ш

Proper shipping name Corrosive liquid, poisonous, n.o.s

Description UN2922, Corrosive liquid, poisonous, n.o.s (Iberverin), 8 (6.1), III

Emergency Response Guide Number 154

IMDG

UN/ID no UN2922 **Hazard Class** 8 Subsidiary hazard class 6.1 Packing Group

Proper shipping name Corrosive liquid, toxic, n.o.s.

Description UN2922, Corrosive liquid, toxic, n.o.s. (Iberverin), 8 (6.1), III

Special Provisions 223, 274 EmS-No F-A, S-B

IATA

UN/ID no UN2922 Hazard Class 8 Subsidiary hazard class 6.1 Packing Group

Proper shipping name Corrosive liquid, toxic, n.o.s.

Description UN2922, Corrosive liquid, toxic, n.o.s. (Iberverin), 8 (6.1), III

15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) China (IECSC) Philippines (PICCS)

-	Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
	Iberverin	Χ	-	Χ	Х	-	-	Х	-	Х	Х

X - Listed

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

US Federal Regulations

SARA 313

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

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

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 CFR 122.42).

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 by state right-to-know regulations

16. OTHER INFORMATION

Revision note No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet