BERRY & ASSOCIATES/ICON ISOTOPES Safety Data Sheet 2,3,5-Tri-O-benzoyl-β-D-ribofuranosyl cyanide

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name 2,3,5-Tri-O-benzoyl-β-D-ribofuranosyl cyanide

Product number CR 2090

Brand Berry&Associates

Substance name 2,3,5-Tri-O-benzoyl-β-D-ribofuranosyl cyanide

CAS no. 23316-67-8

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

Laboratory chemicals; Manufacture of substance

1.3 Details of the supplier of the safety data sheet

Name Berry & Associates/ICON Isotopes

Address 2434 Bishop Circle East

Dexter, MI 48130

USA

Telephone 734-426-3787

email alchem@berryassoc.com

1.4 Emergency telephone number

USA /Canada 800-424-9300 All else 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

- Acute toxicity, oral (chapter 3.1), Cat. 4, H302
- Acute toxicity, inhalation (chapter 3.1), Cat. 4, H332
- Acute toxicity, dermal (chapter 3.1), Cat. 4, H312

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



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Signal word	Warning
Hazard statement(s)	
H302	Harmful if swallowed
H332	Harmful if inhaled
H312	Harmful in contact with skin
Precautionary statement(s)	
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell,
P330	Rinse mouth.
P501	Dispose of contents/container as described in Section 13.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water/...
P321 Specific treatment (see Section 4 on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name 2,3,5-Tri-O-benzoyl-β-D-ribofuranosyl cyanide

CAS no. 23316-67-8 Formula C27H21NO7 Molecular weight 471.48

Other names / synonyms 2,3,5-Tri-O-benzoyl-β-D-ribofuranosyl cyanide

Hazardous components

1. 2,3,5-Tri-O-benzoyl-β-D-ribofuranosyl cyanide

 Concentration
 95 - 100 %

 CAS no.
 23316-67-8

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

Following inhalation If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

Following skin contact Wash off with soap and plenty of water. Consult a physician.

Following eye contact Flush eyes with water as a precaution. Get medical attention if symptoms

occur.

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Following ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self-contained breathing apparatus if necessary and full protective gear to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Take measures to avoid release into the environment, do not let product enter drains.

6.3 Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage

7.1 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. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a dry, well-ventilated cool area.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Use industrial hygiene practices to control hazardous materials.

Personal protection equipment

Eye and face protection

Safety glasses

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Skin protection

Chemical-resistant gloves

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

NIOSH approved respirator, as conditions warrant.

Environmental exposure controls

Do not let material enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

White solid Appearance Odour No data available. Odour threshold No data available. No data available. Melting point / freezing point No data available. Initial boiling point and boiling range No data available. Flash point No data available. Evaporation rate No data available. Flammability (solid, gas) No data available. Upper/lower flammability limits No data available. Upper/lower explosive limits No data available. Vapour pressure No data available. Vapour density No data available. Relative density No data available.

Solubilit(ies) Soluble in water, MeOH and EtOH

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

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10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or known carcinogen by OSHA.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of the product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Disposal of contaminated packaging

Dispose in accordance with local, state and federal regulations.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute health hazard

SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

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California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right To Know Components

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Pennsylvania Right To Know Components

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SECTION 16: Other information

Full text of hazard statements referenced in Section 2

H302 Harmful if swallowed
H312 Harmful in contact with skin

H332 Harmful if inhaled

Further information/disclaimer

The Information in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Safety Data Sheet is designed only as guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Users should make independent decisions regarding completeness of information based on all sources available. Berry & Associates, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.