# **BERRY & ASSOCIATES/ICON ISOTOPES**

# Safety Data Sheet 1-(α)-Chloro-3,5-di-O-p-toluoyl-2-deoxy-D-ribose

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

## 1.1 Product identifier

Product name	1-(α)-Chloro-3,5-di-O-p-toluoyl-2-deoxy-D-ribose
Product number	CR 2020
Brand	Berry&Associates
Substance name	5-O-Benzoyl-1,2-di-O-acetyl-3-deoxy-D-ribose
CAS no.	4330-21-6

# **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 Address	Berry & Associates/ICON Isotopes 2434 Bishop Circle East Dexter, MI 48130 USA
Telephone	734-426-3787
Fax	734-426-9077
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)

- Skin corrosion/irritation (chapter 3.2), Cat. 2, H315
- Eye damage/irritation (chapter 3.3), Cat. 2, H319
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3, H335,H336

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 2.2.

# 2.2 Label elements

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

# Hazard pictograms



Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Precautionary statement(s)	
P264	Wash hands thoroughly after handling.
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).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to as described in Section 13.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Substance name	5-O-Benzoyl-1,2-di-O-acetyl-3-deoxy-D-ribose
CAS no.	4330-21-6
Formula	C <sub>21</sub> H <sub>21</sub> O <sub>5</sub> Cl
Molecular weight	388.85
Other names / synonyms	1-(α)-Chloro-3,5-di-O-p-toluoyl-2-deoxy-D-ribose

# **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 skin with soap and water. Consult a physician if symptoms occur.
Following eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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. Solid water stream may be inefficient.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen chloride gas

## 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. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 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 Transfer to chemical waste container in accordance with local regulations.

6.4 Reference to other sections

For disposal see section 13.

# **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. For precautions see section 2.2.

**7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C

# **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

# **Skin protection**

Chemical-resistant gloves

## **Body protection**

Impervious clothing, 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

# **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.

# **10.5** Incompatible materials No data available.

**10.6 Hazardous decomposition products** No data available.

# **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

Inhalation - May cause respiratory irritation.

## Aspiration hazard

No data available.

# Additional information

## **RTECS:** Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **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 PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Disposal of the product** Dispose in accordance with local, state and federal regulations.

## **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 No SARA hazards.

#### SARA 313 Components

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

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

# Pennsylvania Right To Know Components

2-Deoxydi(p-toluoyl)- $\alpha$ -D-erythro-pentofuranosyl chloride CAS-No. 4330-21-6

## 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.

# **SECTION 16: Other information**

## Full text of hazard statements referenced in Section 2

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

# 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.