This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Aug. 25, 2017

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Chlorophosphonazo-III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>C010</td>
</tr>
<tr>
<td>CAS Number</td>
<td>1914-99-4</td>
</tr>
<tr>
<td>EC Number</td>
<td>217-628-8</td>
</tr>
</tbody>
</table>

1.2 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company</th>
<th>Dojindo Laboratories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan</td>
</tr>
<tr>
<td>Telephone</td>
<td>+81-96-286-1515</td>
</tr>
<tr>
<td>Fax</td>
<td>+81-96-286-1525</td>
</tr>
<tr>
<td>Emergency phone number</td>
<td>+81-96-286-1515</td>
</tr>
</tbody>
</table>

1.3 Product use

For research use only.

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008. [EU-GHS/CLP]

Carcinogenicity, Category 2

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram:

Signal word: Warning

Hazard statement(s):

H351 Suspected of causing cancer.

Precautionary statement(s):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/ international regulations.

2.3 Other hazards

None known.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Name: Chlorophosphonazo-III

Synonyms: 2,7-Bis(4-chloro-2-phosphonophenylazo)-1,8-dihydroxy-3,6-naphthalenedisulfonic acid

Concentration: ≤ 100 %
Formula: \( \text{C}_{22}\text{H}_{16}\text{Cl}_{2}\text{N}_{4}\text{O}_{14}\text{P}_{2}\text{S}_{2} \)

Molecular Weight: 757.37

Section 4. **FIRST AID MEASURES**

4.1 Description of first aid measures

If inhaled: If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.

If swallowed: Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

In case of skin contact: Wash off with plenty of water. Remove contaminated clothing and launder before reuse.

In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

Section 5. **FIRE-FIGHTING MEASURES**

5.1 Extinguishing media

Use extinguishing media appropriate for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

May emit toxic fumes under fire conditions.

5.3 Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing if necessary.

Section 6. **ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

6.2 Environmental precautions

Prevent further leakage. Prevent contamination of drains with product.

6.3 Methods and materials for containment and cleaning up

Pick up and collect product in suitable container for disposal.

Section 7. **HANDLING AND STORAGE**

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store in a cool, dark and dry place.

Section 8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.

Personal protective equipment

Eye/face protection: Wear safety glasses with side-shields conforming to European Standard EN166.


Skin and body protection: Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

Respiratory protection: Wear suitable respiratory equipment in case of inadequate ventilation.

Section 9. **PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

a) Appearance: Reddish brown to black purple crystalline
Section 10. STABILITY AND REACTIVITY

Stability and reactivity
Reactivity: Stable
Chemical stability: Stable at a cool, dark and dry place.
Possibility of hazardous reactions: No data available
Conditions to avoid: Heat, sunlight, high temperature
Incompatible materials: Strong oxidizing agents, strong acids and bases
Hazardous decomposition products: When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride gas and phosphorus oxides.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
a) Acute toxicity: No data available
b) Skin corrosion / irritation: No data available
c) Serious eye damage/eye irritation: No data available
d) Carcinogenicity: Not classified by the IARC monographs.
e) Reproductive toxicity: No data available
f) STOT - SE: No data available
g) STOT - RE: No data available
h) Aspiration hazard: No data available

11.2 Potential health effects
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes serious eye irritation.

11.3 Additional Information
No additional information is available

Section 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
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

Waste treatment methods
Product
Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.
Contaminated packaging
Dispose of as unused product. Do not reuse empty containers.

Section 14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: -  IMDG: -  IATA: -

14.2 UN proper shipping name
ADR/RID: -  IMDG: -  IATA: -

14.3 Transport hazard class(es)
ADR/RID: -  IMDG: -  IATA: -

14.4 Packaging group
ADR/RID: -  IMDG: -  IATA: -

14.5 Environmental hazards
ADR/RID: No  IMDG: No  IATA: No

Section 15. REGULATORY INFORMATION


15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
No information available

15.2 Chemical Safety Assessment
No information available

Section 16. OTHER INFORMATION

Key to abbreviations and acronyms
STOT-SE: Specific Target Organ Toxicity - Single Exposure
STOT-RE: Specific Target Organ Toxicity - Repeated Exposure
PBT: Persistent Bioaccumulative and Toxic
vPvB: very Persistent very Bioaccumulative and toxic
ADR: European Agreement concerning the international carriage of Dangerous goods by Road
CAS: Chemical Abstracts Service
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime code for Dangerous Goods
REACH: Registration, Evaluation, Authorization and restriction of Chemicals
RID: Regulations concerning the International transport of Dangerous goods by rail