

# SAFETY DATA SHEET

CRS BTX standards, 100ng, Part Number C-BTX100NG

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

### 1.1 Product identifier

|                                |  |  |                |
|--------------------------------|--|--|----------------|
| <b>Product name</b>            | : CRS BTX standards, 100ng, Part Number C-BTX100NG |  |                |
| <b>Part no. (chemical kit)</b> | : C-BTX100NG                                       |  |                |
| <b>Part no.</b>                | : Shipping Blank                                   |  | Not available. |
|                                | : Sample Tubes                                     |  | Not available. |

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

|                             |   |  |             |
|-----------------------------|---|--|-------------|
| <b>Identified uses</b>      | : Reagents and Standards for Analytical Chemistry Laboratory Use tubes- 3.5"x 0.25" Stainless Steel with brass storage caps |  |             |
|                             | : Shipping Blank  |  | 1 x 200 mg  |
|                             | : Sample Tubes  |  | 10 x 200 mg |
| <b>Uses advised against</b> | : None known.   |  |             |

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

|                           |                  |                            |
|---------------------------|------------------|----------------------------|
| <b>Product definition</b> | : Shipping Blank | Mono-constituent substance |
|                           | : Sample Tubes   | Mixture                    |

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

#### Shipping Blank

|      |   |            |
|------|---|------------|
| H315 | SKIN CORROSION/IRRITATION   | Category 2 |
| H319 | SERIOUS EYE DAMAGE/EYE IRRITATION   | Category 2 |
| H335 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) | Category 3 |

#### Sample Tubes

|      |   |            |
|------|---|------------|
| H315 | SKIN CORROSION/IRRITATION   | Category 2 |
| H319 | SERIOUS EYE DAMAGE/EYE IRRITATION   | Category 2 |
| H335 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) | Category 3 |

Shipping Blank The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Sample Tubes The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**SECTION 2: Hazards identification**

|   |                |   |
|---|----------------|---|
| <b>Ingredients of unknown toxicity</b>    | : Sample Tubes | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60%<br>Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%<br>Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: > 60% |
| <b>Ingredients of unknown ecotoxicity</b> | : Sample Tubes | Contains 100% of components with unknown hazards to the aquatic environment   |

See Section 16 for the full text of the H statements declared above.  
See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

**Hazard pictograms** : Shipping Blank



Sample Tubes



**Signal word** : Shipping Blank  
Sample Tubes

Warning  
Warning

**Hazard statements** : Shipping Blank

H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
Sample Tubes  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

**Precautionary statements**

**Prevention** : Shipping Blank

P280 - Wear protective gloves. Wear eye or face protection.  
P261 - Avoid breathing dust or mist.  
P264 - Wash thoroughly after handling.  
Sample Tubes  
P280 - Wear protective gloves. Wear eye or face protection.  
P261 - Avoid breathing dust or mist.  
P264 - Wash thoroughly after handling.

**Response** : Shipping Blank

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
Sample Tubes  
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

**Storage** : Shipping Blank

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Sample Tubes

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Disposal** : Shipping Blank

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Sample Tubes  
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : Sample Tubes

Poly(oxy[1,1':3',1''-terphenyl]-2',5'-diyl)-

**Supplemental label elements** : Shipping Blank  
Sample Tubes

Not applicable.  
Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Shipping Blank  
Sample Tubes

Not applicable.  
Not applicable.

## SECTION 2: Hazards identification

### Special packaging requirements

**Tactile warning of danger** : Shipping Blank Not applicable.  
Sample Tubes Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** :

|                       | PBT | P   | B   | T  | vPvB | vP  | vB  |
|-----------------------|-----|-----|-----|----|------|-----|-----|
| <b>Shipping Blank</b> | No  | N/A | N/A | No | N/A  | N/A | N/A |

Sample Tubes This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : Shipping Blank May form combustible dust concentrations in air.  
Sample Tubes May form combustible dust concentrations in air.

## SECTION 3: Composition/information on ingredients

**3.1 Substances** : Shipping Blank Mono-constituent substance  
Sample Tubes Mixture

| Product/ingredient name  | Identifiers     | %   | Classification  | Specific Conc. Limits, M-factors and ATEs | Type |
|--|-----------------|-----|---|---|------|
| <b>Shipping Blank</b><br>Poly(oxy[1,1':3',1"-terphenyl]-2',5'-diyl)- | CAS: 24938-68-9 | 100 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335  | -   | [1]  |
| <b>Sample Tubes</b><br>Poly(oxy[1,1':3',1"-terphenyl]-2',5'-diyl)-   | CAS: 24938-68-9 | ≥90 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br><b>See Section 16 for the full text of the H statements declared above.</b> | -   | [1]  |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type  
Shipping Blank [1] Constituent  
Sample Tubes [1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : Shipping Blank Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.  
Sample Tubes Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**SECTION 4: First aid measures**

|                                   |                  |   |
|-----------------------------------|------------------|---|
| <b>Inhalation</b>                 | : Shipping Blank | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
|                                   | Sample Tubes     | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <b>Skin contact</b>               | : Shipping Blank | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
|                                   | Sample Tubes     | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| <b>Ingestion</b>                  | : Shipping Blank | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.    |
|                                   | Sample Tubes     | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.    |
| <b>Protection of first-aiders</b> | : Shipping Blank | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  |
|                                   | Sample Tubes     | No action shall be taken involving any personal risk or   |

## SECTION 4: First aid measures

without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

|                     |                                  |  |
|---------------------|----------------------------------|--|
| <b>Eye contact</b>  | : Shipping Blank<br>Sample Tubes | Causes serious eye irritation.<br>Causes serious eye irritation.                                       |
| <b>Inhalation</b>   | : Shipping Blank<br>Sample Tubes | May cause respiratory irritation.<br>May cause respiratory irritation.                                 |
| <b>Skin contact</b> | : Shipping Blank<br>Sample Tubes | Causes skin irritation.<br>Causes skin irritation.   |
| <b>Ingestion</b>    | : Shipping Blank<br>Sample Tubes | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

|                     |                                      |  |
|---------------------|--------------------------------------|--|
| <b>Eye contact</b>  | : Shipping Blank<br><br>Sample Tubes | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness<br>Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : Shipping Blank<br><br>Sample Tubes | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing   |
| <b>Skin contact</b> | : Shipping Blank<br><br>Sample Tubes | Adverse symptoms may include the following:<br>irritation<br>redness<br>Adverse symptoms may include the following:<br>irritation<br>redness   |
| <b>Ingestion</b>    | : Shipping Blank<br>Sample Tubes     | No specific data.<br>No specific data.   |

### 4.3 Indication of any immediate medical attention and special treatment needed

|                            |                                  |  |
|----------------------------|----------------------------------|--|
| <b>Notes to physician</b>  | : Shipping Blank<br>Sample Tubes | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : Shipping Blank<br>Sample Tubes | No specific treatment.<br>No specific treatment.   |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                  |  |
|---------------------------------------|----------------------------------|--|
| <b>Suitable extinguishing media</b>   | : Shipping Blank<br>Sample Tubes | Use dry chemical powder.<br>Use dry chemical powder.   |
| <b>Unsuitable extinguishing media</b> | : Shipping Blank<br>Sample Tubes | Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.<br>Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. |

## SECTION 5: Firefighting measures

### 5.2 Special hazards arising from the substance or mixture

|  |                                      |  |
|--|--------------------------------------|--|
| <b>Hazards from the substance or mixture</b> | : Shipping Blank<br>Sample Tubes     | May form explosible dust-air mixture if dispersed.<br>May form explosible dust-air mixture if dispersed.   |
| <b>Hazardous combustion products</b>         | : Shipping Blank<br><br>Sample Tubes | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |

### 5.3 Advice for firefighters

|   |                                      |  |
|---|--------------------------------------|--|
| <b>Special precautions for fire-fighters</b>          | : Shipping Blank<br><br>Sample Tubes | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.<br>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |
| <b>Special protective equipment for fire-fighters</b> | : Shipping Blank<br><br>Sample Tubes | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.<br>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                                    |                                      |  |
|------------------------------------|--------------------------------------|--|
| <b>For non-emergency personnel</b> | : Shipping Blank<br><br>Sample Tubes | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.<br>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | : Shipping Blank<br><br>Sample Tubes | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".<br>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |

## SECTION 6: Accidental release measures

|   |   |  |
|---|---|--|
| <b>6.2 Environmental precautions</b>                            | : Shipping Blank  | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
|   | Sample Tubes  | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| <br>  |   |  |
| <b>6.3 Methods and material for containment and cleaning up</b> |   |  |
| <b>Methods for cleaning up</b>                                  | : Shipping Blank  | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
|   | Sample Tubes  | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| <br>  |   |  |
| <b>6.4 Reference to other sections</b>                          | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information. |  |

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

|                            |                  |   |
|----------------------------|------------------|---|
| <b>Protective measures</b> | : Shipping Blank | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|                            | Sample Tubes     | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |

## SECTION 7: Handling and storage

**Advice on general occupational hygiene**

: Shipping Blank

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Sample Tubes

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage**

: Shipping Blank

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Sample Tubes

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

**Recommendations**

: Shipping Blank  
Sample Tubes

Industrial applications, Professional applications.  
Industrial applications, Professional applications.

**Industrial sector specific solutions**

: Shipping Blank  
Sample Tubes

Not available.  
Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**

No exposure limit value known.

**Biological exposure indices**

No exposure indices known.



## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available

## 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

|   |                                  |                                      |
|---|----------------------------------|--------------------------------------|
| <b>Physical state</b>                               | : Shipping Blank<br>Sample Tubes | Solid. [Powder.]<br>Solid. [Powder.] |
| <b>Colour</b>                                       | : Shipping Blank<br>Sample Tubes | White.<br>White.                     |
| <b>Odour</b>  | : Shipping Blank<br>Sample Tubes | Odourless.<br>Odourless.             |
| <b>Odour threshold</b>                              | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.     |
| <b>Melting point/freezing point</b>                 | : Shipping Blank<br>Sample Tubes | 460°C<br>460°C                       |
| <b>Initial boiling point and boiling range</b>      | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.     |
| <b>Flammability</b>                                 | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.     |
| <b>Upper/lower flammability or explosive limits</b> | : Shipping Blank<br>Sample Tubes | Not applicable.<br>Not applicable.   |
| <b>Flash point</b>                                  | : Shipping Blank<br>Sample Tubes | Not applicable.<br>Not applicable.   |
| <b>Auto-ignition temperature</b>                    | : Shipping Blank<br>Sample Tubes | Not applicable.<br>Not applicable.   |
| <b>Decomposition temperature</b>                    | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.     |
| <b>pH</b>   | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.     |
| <b>Viscosity</b>                                    | : Shipping Blank<br>Sample Tubes | Not applicable.<br>Not applicable.   |

|                        |  |                            |
|------------------------|--|----------------------------|
| <b>Solubility(ies)</b> | <b>Media</b>   | <b>Result</b>              |
|                        | <b>Shipping Blank</b><br>water<br><b>Sample Tubes</b><br>water | Insoluble<br><br>Insoluble |

|   |                                  |                                    |
|---|----------------------------------|------------------------------------|
| <b>Partition coefficient: n-octanol/water</b> | : Shipping Blank<br>Sample Tubes | Not applicable.<br>Not applicable. |
| <b>Vapour pressure</b>                        | : Not available.                 |                                    |
| <b>Evaporation rate</b>                       | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.   |
| <b>Relative density</b>                       | : Shipping Blank<br>Sample Tubes | 0.25<br>0.25                       |
| <b>Vapour density</b>                         | : Shipping Blank<br>Sample Tubes | Not applicable.<br>Not applicable. |
| <b>Explosive properties</b>                   | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.   |
| <b>Oxidising properties</b>                   | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available.   |

#### Particle characteristics

|                             |                                  |                                  |
|-----------------------------|----------------------------------|----------------------------------|
| <b>Median particle size</b> | : Shipping Blank<br>Sample Tubes | Not available.<br>Not available. |
|-----------------------------|----------------------------------|----------------------------------|

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

|  |                                      |  |
|--|--------------------------------------|--|
| <b>10.1 Reactivity</b>                         | : Shipping Blank<br>Sample Tubes     | No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.   |
| <b>10.2 Chemical stability</b>                 | : Shipping Blank<br>Sample Tubes     | The product is stable.<br>The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | : Shipping Blank<br>Sample Tubes     | Under normal conditions of storage and use, hazardous reactions will not occur.<br>Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | : Shipping Blank<br><br>Sample Tubes | Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.<br>Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. |
| <b>10.5 Incompatible materials</b>             | : Shipping Blank<br>Sample Tubes     | Reactive or incompatible with the following materials:<br>oxidising materials<br>Reactive or incompatible with the following materials:<br>oxidising materials   |
| <b>10.6 Hazardous decomposition products</b>   | : Shipping Blank<br>Sample Tubes     | Under normal conditions of storage and use, hazardous decomposition products should not be produced.<br>Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

Not available.

**Acute toxicity estimates**

N/A

**Irritation/Corrosion**

**Conclusion/Summary** : Not available.

**Sensitiser**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**SECTION 11: Toxicological information**

Specific target organ toxicity (single exposure)

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| <b>Shipping Blank</b><br>Poly(oxy[1,1':3',1''-terphenyl]-2',5'-diyl)- | Category 3 | -                 | Respiratory tract irritation |
| <b>Sample Tubes</b><br>Poly(oxy[1,1':3',1''-terphenyl]-2',5'-diyl)-   | Category 3 | -                 | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

**Information on likely routes of exposure** : Shipping Blank Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
Sample Tubes Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

**Inhalation** : Shipping Blank May cause respiratory irritation.  
Sample Tubes May cause respiratory irritation.

**Ingestion** : Shipping Blank No known significant effects or critical hazards.  
Sample Tubes No known significant effects or critical hazards.

**Skin contact** : Shipping Blank Causes skin irritation.  
Sample Tubes Causes skin irritation.

**Eye contact** : Shipping Blank Causes serious eye irritation.  
Sample Tubes Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Shipping Blank Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
Sample Tubes Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Ingestion** : Shipping Blank No specific data.  
Sample Tubes No specific data.

**Skin contact** : Shipping Blank Adverse symptoms may include the following:  
irritation  
redness  
Sample Tubes Adverse symptoms may include the following:  
irritation  
redness

**Eye contact** : Shipping Blank Adverse symptoms may include the following:  
pain or irritation  
watering  
redness  
Sample Tubes Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

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

Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

Long term exposure

## SECTION 11: Toxicological information

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Not available.

**General** : Shipping Blank  
Sample Tubes  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Carcinogenicity** : Shipping Blank  
Sample Tubes  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Mutagenicity** : Shipping Blank  
Sample Tubes  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Reproductive toxicity** : Shipping Blank  
Sample Tubes  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

| Product/ingredient name          | PBT | P   | B   | T  | vPvB | vP  | vB  |
|----------------------------------|-----|-----|-----|----|------|-----|-----|
| Shipping Blank<br>Shipping Blank | No  | N/A | N/A | No | N/A  | N/A | N/A |

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                 | ADR/RID        | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|
| 14.1 UN number or ID number     | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              |
| 14.5 Environmental hazards      | No.            | No.            | No.            |

### Additional information

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

## SECTION 15: Regulatory information

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product / Ingredient name | Identifiers   | Designation [Usage] |
|---------------------------|---|---------------------|
| Sample Tubes<br>benzene   | EC: 200-753-7<br>CAS: 71-43-2<br>Index: 601-020-00-8  | 5<br>72             |
| toluene                   | EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3 | 48                  |

**Label** : Shipping Blank : Not applicable.  
Sample Tubes : Not applicable.

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Persistent Organic Pollutants

Not listed.

##### Seveso Directive

This product is not controlled under the Seveso Directive.

#### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

##### Montreal Protocol

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

##### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

##### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

#### Inventory list

|                                |  |
|--------------------------------|--|
| <b>Australia</b>               | : Not determined.  |
| <b>Canada</b>                  | : Not determined.  |
| <b>China</b>                   | : All components are listed or exempted.   |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : All components are listed or exempted.   |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : All components are listed or exempted. |
| <b>New Zealand</b>             | : Not determined.  |
| <b>Philippines</b>             | : Not determined.  |
| <b>Republic of Korea</b>       | : Not determined.  |
| <b>Taiwan</b>                  | : All components are listed or exempted.   |
| <b>Thailand</b>                | : Not determined.  |
| <b>Turkey</b>                  | : All components are listed or exempted.   |
| <b>United States</b>           | : All components are active or exempted.   |
| <b>Viet Nam</b>                | : All components are listed or exempted.   |

**SECTION 15: Regulatory information**

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification   | Justification  |
|--|--|
| <b>Shipping Blank</b><br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br><br><b>Sample Tubes</b><br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 | Calculation method<br>Calculation method<br>Calculation method<br><br>Calculation method<br>Calculation method<br>Calculation method |

Full text of abbreviated H statements

|  |  |
|--|--|
| <b>Shipping Blank</b><br>H315<br>H319<br>H335<br><br><b>Sample Tubes</b><br>H315<br>H319<br>H335 | Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br><br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation. |
|--|--|

Full text of classifications [CLP/GHS]

|  |  |
|--|--|
| <b>Shipping Blank</b><br>Eye Irrit. 2<br>Skin Irrit. 2<br>STOT SE 3<br><br><b>Sample Tubes</b><br>Eye Irrit. 2<br>Skin Irrit. 2<br>STOT SE 3 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3<br><br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
|--|--|

**Date of issue/ Date of revision** : 02/05/2024

**Date of previous issue** : No previous validation

**Version** : 1

Notice to reader



## SECTION 16: Other information

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