Safety Data Sheet

Cat. # 786-11X

CB-X™ Protein Assay (No BSA Standard)

Size: 500 Assays
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture
Product name: CB-X
EC Index-No.: 606-001-00-8
EC-No.: 200-662-2
Product code: 113C
Type of product: Pure substance
Formula: C₃H₆O
Synonyms: 2-propanol / 2-propanone / acetone / acetone NF / acetone oil / AI3-01238 / Caswell No.004 / chevron acetone / dimethyl formaldehyde / dimethyl ketone / dimethylketal / Dimethylketon / DMK (=dimethyl ketone) / FEMA No 3326 / ketone propane / KTI acetone / methyl acetyl / pyroacetic acid / pyroacetic ether / pyroacetic spirit / STEC 4908105
Product group: Trade product
BIG No: 10001

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Solvent
Cleansing product
Chemical raw material

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences
9800 Page Avenue
63132-1429 Saint Louis - United States
T 800-628-7730 - F 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
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<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grosvenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
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<td></td>
<td>Royal Victoria Hospital</td>
<td></td>
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<td>National Poisons Information Service (Birmingham Centre)</td>
<td>Dudley Road B18 7QH Birmingham</td>
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<td>City Hospital</td>
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<td>National Poisons Information Service (Cardiff Centre)</td>
<td>Penarth CF64 2XX Cardiff</td>
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<td>Gwernwyn Ward, Llandough Hospital</td>
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<td>National Poisons Information Service Edinburgh</td>
<td>Little France Crescent EH16 4SA Edinburgh</td>
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<td>Royal Infirmary of Edinburgh</td>
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<tr>
<td>United Kingdom</td>
<td>Guy's &amp; St Thomas' Poisons Unit</td>
<td>Avonley Road SE14 5ER London</td>
<td>+44 20 7188 7188</td>
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<td></td>
<td>Medical Toxicology Unit, Guy's &amp; St Thomas' Hospital Trust</td>
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<td>Claremont Place Newcastle-upon-Tyne</td>
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<td>Regional Drugs and Therapeutics Centre, Wolfson Unit</td>
<td>NE1 4LP Newcastle</td>
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2
H225
Serious eye damage/eye irritation, Category 2  H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis  H336
Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects
Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP):

<table>
<thead>
<tr>
<th>CLP Signal word</th>
<th>: Danger</th>
</tr>
</thead>
</table>

Hazardous ingredients: acetone

Hazard statements (CLP):

H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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<tr>
<td>acetone</td>
<td>(CAS-No.: 67-64-1</td>
<td>&gt;= 80</td>
<td>Flam. Liq. 2, H225  Eye Irrit. 2, H319</td>
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<tr>
<td></td>
<td>(EC-No.: 200-662-2</td>
<td></td>
<td>STOT SE 3, H336</td>
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<tr>
<td></td>
<td>(EC Index-No.: 606-001-00-8</td>
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<td></td>
</tr>
<tr>
<td>Iso-amyl Alcohol</td>
<td>(CAS-No.: 123-51-3</td>
<td>&lt; 0.05</td>
<td>Flam. Liq. 3, H226  Acute Tox. 4 (Inhalation), H332</td>
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<tr>
<td></td>
<td>(EC-No.: 204-633-5</td>
<td></td>
<td>STOT SE 3, H335</td>
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<tr>
<td></td>
<td>(EC Index-No.: 603-006-00-7</td>
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<td></td>
</tr>
<tr>
<td>chloroform</td>
<td>(CAS-No.: 67-66-3</td>
<td>&lt; 0.05</td>
<td>Acute Tox. 4 (Oral), H302  Skin Irrit. 2, H315</td>
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<tr>
<td></td>
<td>(EC-No.: 200-663-8</td>
<td></td>
<td>Eye Irrit. 2, H319</td>
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<tr>
<td></td>
<td>(EC Index-No.: 602-006-00-4</td>
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<td>Carc. 2, H351</td>
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<td>Repr. 2, H361d</td>
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<td>STOT RE 1, H372</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400 (M=100)</td>
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2-propanol (CAS-No.) 67-63-0  
(EC-No.) 200-661-7  
(EC Index-No.) 603-117-00-0 < 0.05  
Flam. Liq. 2, H225  
Eye Irrit. 2, H319  
STOT SE 3, H336  
hydrogen chloride, conc=36%, aqueous solution (CAS-No.) 7647-01-0  
(EC-No.) 231-595-7  
(EC Index-No.) 017-002-01-X < 0.05  
Skin Corr. 1A, H314  
STOT SE 3, H335  
Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
</table>
| hydrogen chloride, conc=36%, aqueous solution (CAS-No.) 7647-01-0  
(EC-No.) 231-595-7  
(EC Index-No.) 017-002-01-X | ( 10 =<C < 25) Eye Irrit. 2, H319  
( 10 =<C < 25) Skin Irrit. 2, H315  
( 25 =<C < 100) STOT SE 3, H335  
( 25 =<C < 100) Skin Corr. 1B, H314 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:

First-aid measures after inhalation:
- Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact:
- Wash immediately with lots of water. Soap may be used. Do not apply chemical neutralizing agents. Remove clothing before washing. Take victim to a doctor if irritation persists.

First-aid measures after eye contact:
- Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion:

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

Symptoms/effects:
- May cause drowsiness or dizziness.

Symptoms/effects after inhalation:

Symptoms/effects after skin contact:
- ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

Symptoms/effects after eye contact:
- Irritation of the eye tissue.

Symptoms/effects after ingestion:

Chronic symptoms:

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:
- Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Fire hazard:
- DIRECT FIRE HAZARD: Highly flammable liquid and vapour. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD: May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
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Safety Data Sheet
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Explosion hazard: DIRECT EXPLOSION HAZARD: Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD: Heat may cause pressure rise in tanks/drum: explosion risk. may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.


SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up
For containment: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.
Methods for cleaning up: Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Spill must not return in its original container. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Use spark-/explosion-proof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Ground/bond container and receiving equipment.
Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Storage temperature: 15 - 20 °C
Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. (strong) acids. (strong) bases. halogens. amines.
Special rules on packaging: SPECIAL REQUIREMENTS: closing, with pressure relief valve. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
**Packaging materials**: SUITABLE MATERIAL: steel, stainless steel, carbon steel, aluminium, iron, copper, nickel, bronze, glass. MATERIAL TO AVOID: synthetic material.

### 7.3. Specific end use(s)
No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**CB-X**

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<th>EU - Occupational Exposure Limits</th>
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<td>IOELV TWA (mg/m³)</td>
<td>1210 mg/m³</td>
</tr>
<tr>
<td>IOELV TWA (ppm)</td>
<td>500 ppm</td>
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**United Kingdom - Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>WEL TWA (mg/m³)</th>
<th>1210 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL TWA (ppm)</td>
<td>500 ppm</td>
</tr>
<tr>
<td>WEL STEL (mg/m³)</td>
<td>3620 mg/m³</td>
</tr>
<tr>
<td>WEL STEL (ppm)</td>
<td>1500 ppm</td>
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**acetone (67-64-1)**

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<tr>
<td>IOELV TWA (mg/m³)</td>
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<td>IOELV TWA (ppm)</td>
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**United Kingdom - Occupational Exposure Limits**

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<thead>
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<tr>
<td>WEL TWA (ppm)</td>
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<tr>
<td>WEL STEL (mg/m³)</td>
<td>3620 mg/m³</td>
</tr>
<tr>
<td>WEL STEL (ppm)</td>
<td>1500 ppm</td>
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**Iso-amyl Alcohol (123-51-3)**

**United Kingdom - Occupational Exposure Limits**

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<thead>
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<th>366 mg/m³</th>
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<tr>
<td>WEL TWA (ppm)</td>
<td>100 ppm</td>
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<tr>
<td>WEL STEL (mg/m³)</td>
<td>458 mg/m³</td>
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<td>WEL STEL (ppm)</td>
<td>125 ppm</td>
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**chloroform (67-66-3)**

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<td>IOELV TWA (ppm)</td>
<td>2 ppm</td>
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**United Kingdom - Occupational Exposure Limits**

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<th>9.9 mg/m³</th>
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<tr>
<td>WEL TWA (ppm)</td>
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**2-propanol (67-63-0)**

**United Kingdom - Occupational Exposure Limits**

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<td>WEL TWA (ppm)</td>
<td>400 ppm</td>
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<tr>
<td>WEL STEL (mg/m³)</td>
<td>1250 mg/m³</td>
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<tr>
<td>WEL STEL (ppm)</td>
<td>500 ppm</td>
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</table>
CB-X
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**CB-X**

**DNEL/DMEL (Workers)**

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<th>Effect Type</th>
<th>DNEL/DMEL</th>
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<td>Acute - local effects, inhalation</td>
<td>2420 mg/m³</td>
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<td>Long-term - systemic effects, dermal</td>
<td>186 mg/kg bw/day</td>
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<td>Long-term - systemic effects, inhalation</td>
<td>1210 mg/m³</td>
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**DNEL/DMEL (General population)**

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<th>Effect Type</th>
<th>DNEL/DMEL</th>
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<tbody>
<tr>
<td>Long-term - systemic effects, oral</td>
<td>62 mg/kg bw/day</td>
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<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>200 mg/m³</td>
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<tr>
<td>Long-term - systemic effects, dermal</td>
<td>62 mg/kg bw/day</td>
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**PNEC (Water)**

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<thead>
<tr>
<th>PNEC Type</th>
<th>PNEC Value</th>
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<tbody>
<tr>
<td>PNEC aqua (freshwater)</td>
<td>10.6 mg/l</td>
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<td>PNEC aqua (marine water)</td>
<td>1.06 mg/l</td>
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</table>

**PNEC (Sediment)**

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<th>PNEC Type</th>
<th>PNEC Value</th>
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</thead>
<tbody>
<tr>
<td>PNEC sediment (freshwater)</td>
<td>30.4 mg/kg dwt</td>
</tr>
<tr>
<td>PNEC sediment (marine water)</td>
<td>3.04 mg/kg dwt</td>
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**PNEC (Soil)**

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<td>PNEC soil</td>
<td>29.5 mg/kg dwt</td>
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**PNEC (STP)**

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<td>PNEC sewage treatment plant</td>
<td>100 mg/l</td>
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</table>

**8.2. Exposure controls**

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Materials for protective clothing:**

GIVE GOOD RESISTANCE: butyl rubber, tetrafluoroethylene. GIVE LESS RESISTANCE: chlorosulfonated polyethylene, natural rubber, neoprene, polyurethane. PVA, styrene-butadiene rubber. GIVE POOR RESISTANCE: nitrile rubber, polyethylene, PVC, viton, nitrile rubber/PVC

**Hand protection:**

Gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Head/neck protection, Protective clothing

**Respiratory protection:**

Full face mask with filter type AX at conc. in air > exposure limit

**Environmental exposure controls:**

Avoid release to the environment.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

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<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
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<tr>
<td>Appearance</td>
<td>Liquid.</td>
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<tr>
<td>Molecular mass</td>
<td>58.08 g/mol</td>
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<tr>
<td>Colour</td>
<td>Colourless.</td>
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<tr>
<td>Odour</td>
<td>Aromatic odour. Sweet odour. Fruity odour.</td>
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<td>Odour threshold</td>
<td>No data available</td>
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<tr>
<td>pH</td>
<td>7 (10 g/l)</td>
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<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>6</td>
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<td>Relative evaporation rate (ether=1)</td>
<td>2</td>
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<tr>
<td>Melting point</td>
<td>-95 °C</td>
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</table>
CB-X
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Freezing point: No data available
Boiling point: 56 °C
Flash point: -17 °C (Closed cup)
Critical temperature: 235 °C
Auto-ignition temperature: 465 °C
Decomposition temperature: No data available
Flammability (solid, gas): Not applicable
Vapour pressure: 247 hPa (20 °C)
Vapour pressure at 50 °C: 828 hPa
Critical pressure: 47010 hPa
Relative vapour density at 20 °C: 2
Relative density: 0.79
Relative density of saturated gas/air mixture: 1.2
Density: 786 kg/m³
Ether: complete

Log Pow: -0.24 (Test data)
Viscosity, kinematic: 0.417 mm²/s
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: 2 - 12.8 vol %
60 - 310 g/m³
Lower explosive limit (LEL): 2 vol %
Upper explosive limit (UEL): 12.8 vol %

9.2. Other information
Specific conductivity: 6000000 pS/m (25 °C)
Saturation concentration: 589 g/m³
VOC content: 100 %
Other properties: Gas/vapour heavier than air at 20°C. Clear. Highly volatile. Neutral reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity
Violent to explosive reaction with many compounds. Prolonged storage: on exposure to light: release of harmful gases/vapours.

10.2. Chemical stability
Unstable on exposure to light.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

CB-X
LD50 oral rat: 5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)
LD50 dermal rabbit: 20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l): 76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours))
ATE CLP (vapours) | 76 mg/l/4h
ATE CLP (dust,mist) | 76 mg/l/4h

### acetone (67-64-1)

| LD50 oral rat | 5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral) |
| LD50 dermal rabbit | 20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | 76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours)) |

### chloroform (67-66-3)

| LD50 oral rat | 908 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral) |
| LD50 dermal rabbit | > 3980 mg/kg bodyweight (24 h, Rabbit, No reliable data available, Dermal) |

### 2-propanol (67-63-0)

| LD50 oral rat | 5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (ppm) | > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |

###Skin corrosion/irritation
- Not classified
- pH: 7 (10 g/l)

###Serious eye damage/irritation
- Causes serious eye irritation.
- pH: 7 (10 g/l)

###Respiratory or skin sensitisation
- Not classified

###Germ cell mutagenicity
- Not classified

###Carcinogenicity
- Not classified

###Reproductive toxicity
- Not classified

###STOT-single exposure
- May cause drowsiness or dizziness.

###STOT-repeated exposure
- Not classified

###Aspiration hazard
- Not classified

###CB-X

- Viscosity, kinematic: 0.417 mm²/s
- Potential adverse human health effects and symptoms: Odour tolerance may develop. Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Repeated exposure may cause skin dryness or cracking. Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). May cause drowsiness or dizziness. Non-toxic by inhalation (LC50 inh, rat > 50 mg/l/4h). Slightly irritant to respiratory organs. Causes serious eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

- Ecology - general: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
- Ecology - air: Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
- Acute aquatic toxicity: Not classified
- Chronic aquatic toxicity: Not classified

###CB-X

- LC50 fish 1: 5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)
CB-X
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Acetone (67-64-1)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 96h algae (1)</td>
<td>&gt; 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Nominal concentration)</td>
</tr>
</tbody>
</table>

## 12.2. Persistence and degradability

### CB-X

#### Persistence and degradability

Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.

#### Biochemical oxygen demand (BOD)

1.43 g O₂/g substance

#### Chemical oxygen demand (COD)

1.92 g O₂/g substance

#### ThOD

2.2 g O₂/g substance

#### BOD (% of ThOD)

0.872 (20 day(s), Literature study)

### Acetone (67-64-1)

#### Persistence and degradability

Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.

#### Biochemical oxygen demand (BOD)

1.43 g O₂/g substance

#### Chemical oxygen demand (COD)

1.92 g O₂/g substance

#### ThOD

2.2 g O₂/g substance

#### BOD (% of ThOD)

0.872 (20 day(s), Literature study)

## Iso-amyl Alcohol (123-51-3)

#### Persistence and degradability

Readily biodegradable in water.

#### Biochemical oxygen demand (BOD)

1.6 g O₂/g substance

#### Chemical oxygen demand (COD)

2.44 g O₂/g substance

#### ThOD

2.2 g O₂/g substance

#### BOD (% of ThOD)

0.872 (20 day(s), Literature study)
### CB-X Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone (67-64-1)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>Iso-amyl Alcohol (123-51-3)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>chloroform (67-66-3)</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
<tr>
<td>hydrogen chloride, conc=36%, aqueous solution (7647-01-0)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

---

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>BCF fish 1</th>
<th>BCF other aquatic organisms 1</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-X</td>
<td>0.69 (Pisces)</td>
<td>3 (BCFWIN, Calculated value)</td>
<td>-0.24 (Test data)</td>
<td>Not bioaccumulative.</td>
</tr>
<tr>
<td>acetone (67-64-1)</td>
<td>0.69 (Pisces)</td>
<td>3 (BCFWIN, Calculated value)</td>
<td>-0.24 (Test data)</td>
<td>Not bioaccumulative.</td>
</tr>
<tr>
<td>Iso-amyl Alcohol (123-51-3)</td>
<td>1.35 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)</td>
<td>Not bioaccumulative.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>chloroform (67-66-3)</td>
<td>4.1 - 13 (OECD 305: Bioconcentration: Flow-Through Fish Test, 42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)</td>
<td>1.97 (Experimental value, 20 °C)</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
<td></td>
</tr>
<tr>
<td>hydrogen chloride, conc=36%, aqueous solution (7647-01-0)</td>
<td>0.25 (QSAR)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2-propanol (67-63-0)

Log Pow: 0.05 (Weight of evidence approach, 25 °C)

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

CB-X

Surface tension: 0.0237 N/m

Ecology - soil: No (test)data on mobility of the substance available.

Acetone (67-64-1)

Surface tension: 0.0237 N/m

Ecology - soil: No (test)data on mobility of the substance available.

Iso-amyl Alcohol (123-51-3)

Surface tension: 0.024 N/m (20 °C)

Log Koc: 0.73 (log Koc, SRC PCKOCWIN v2.0, QSAR)

Ecology - soil: Highly mobile in soil.

Chloroform (67-66-3)

Surface tension: 0.0271 N/m (20 °C)

Log Koc: 1.8 - 2.6 (log Koc, Other, Experimental value)

Ecology - soil: Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.

Hydrogen chloride, conc=36%, aqueous solution (7647-01-0)

Ecology - soil: No (test)data on mobility of the components available. May be harmful to plant growth, blooming and fruit formation.

2-propanol (67-63-0)

Surface tension: 0.021 N/m (25 °C)

Log Koc: 0.185 - 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Ecology - soil: Highly mobile in soil.

12.5. Results of PBT and vPvB assessment

CB-X

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

Acetone (67-64-1): This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods:

- Waste treatment methods.

Product/Packaging disposal recommendations:

- Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery.
**CB-X**
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830


European List of Waste (LoW) code: 15 01 10* - packaging containing residues of or contaminated by dangerous substances 07 01 04* - other organic solvents, washing liquids and mother liquors

### SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number
<table>
<thead>
<tr>
<th>Description</th>
<th>UN-No.</th>
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<tbody>
<tr>
<td>UN-No. (ADR)</td>
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<td>UN-No. (IMDG)</td>
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<td>UN-No. (IATA)</td>
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<td>UN-No. (ADN)</td>
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<td>UN-No. (RID)</td>
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#### 14.2. UN proper shipping name
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<tbody>
<tr>
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<td>Proper Shipping Name (IATA)</td>
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<td>Proper Shipping Name (ADN)</td>
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<td>Proper Shipping Name (RID)</td>
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<table>
<thead>
<tr>
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<th>Transport document description</th>
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<tr>
<td>Transport document description (ADR)</td>
<td>UN 1090 Acetone, 3, II, (D/E)</td>
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<tr>
<td>Transport document description (IMDG)</td>
<td>UN 1090 acetone, 3, II</td>
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<tr>
<td>Transport document description (IATA)</td>
<td>UN 1090 Acetone, 3, II</td>
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<tr>
<td>Transport document description (ADN)</td>
<td>UN 1090 Acetone, 3, II</td>
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<tr>
<td>Transport document description (RID)</td>
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#### 14.3. Transport hazard class(es)

**ADR**

<table>
<thead>
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<td>Danger labels (ADR)</td>
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**IMDG**

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<td>Danger labels (IMDG)</td>
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**IATA**

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<tr>
<td>Hazard labels (IATA)</td>
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**ADN**

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<th>Description</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Danger labels (ADN)</td>
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</tbody>
</table>
# CB-X
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## RID
Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3

## 14.4. Packing group
| Packing group (ADR) | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN) | : II |
| Packing group (RID) | : II |

## 14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

## 14.6. Special precautions for user
### Overland transport
Transport regulations (ADR) : Subject
Classification code (ADR) : F1
Hazard identification number (Kamler No.) : 33
Orange plates : 33
Tunnel restriction code (ADR) : D/E
EAC code : •2YE

### Transport by sea
Transport regulations (IMDG) : Subject
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D

### Air transport
Transport regulations (IATA) : Subject to the provisions

### Inland waterway transport
Classification code (ADN) : F1
Carriage permitted (ADN) : T

### Rail transport
Transport regulations (RID) : Subject
Classification code (RID) : F1

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

## SECTION 15: Regulatory information
### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 100%

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Full text of H- and EUH-statements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
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<tr>
<td>Acute Tox. 4 (Inhalation)</td>
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<tr>
<td>Acute Tox. 4 (Oral)</td>
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<td>Aquatic Acute 1</td>
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<tr>
<td>Carc. 2</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
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<tr>
<td>Flam. Liq. 2</td>
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<tr>
<td>Flam. Liq. 3</td>
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<tr>
<td>Repr. 2</td>
</tr>
<tr>
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<tr>
<td>Skin Corr. 1B</td>
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<td>H400</td>
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</table>

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

- **Product form**: Mixture
- **Product name**: CB-X Assay Dye
- **Product code**: 119C
- **Product group**: Blend

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

1.2.1. Relevant identified uses
No additional information available

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./G-Biosciences
9800 Page Avenue
63132-1429 Saint Louis - United States
T 800-628-7730 - F 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number: Chemtrec **1-800-424-9300** (USA/Canada), **+1-703-527-3887** (Intl)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
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</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grosvenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre)</td>
<td>Dudley Road B18 7QH Birmingham</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Cardiff Centre)</td>
<td>Penarth CF64 2XX Cardiff</td>
<td>0344 892 0111</td>
<td></td>
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<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service Edinburgh</td>
<td>Little France Crescent EH16 4SA Edinburgh</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Guy's &amp; St Thomas' Poisons Unit Medical Toxicology Unit</td>
<td>Avonley Road SE14 5ER London</td>
<td>+44 20 7188 7188</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Newcastle Centre)</td>
<td>Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle</td>
<td>0344 892 0111</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available
SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>&gt;= 80</td>
<td>Not classified</td>
</tr>
<tr>
<td>phosphoric acid, conc=85%</td>
<td>(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6</td>
<td>10 - 50</td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td>methanol</td>
<td>(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X</td>
<td>2 - 5</td>
<td>Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation: vapour), H331 STOT SE 1, H370</td>
</tr>
<tr>
<td>Coomassie Brilliant Blue G 250 Dye</td>
<td>(CAS-No.) 6104-58-1 (EC-No.) 228-058-4</td>
<td>&lt; 0.05</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
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<tr>
<td>methanol</td>
<td>(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X</td>
<td>(3 &lt;=C &lt; 10) STOT SE 2, H371 (10 &lt;=C &lt; 100) STOT SE 1, H370</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
- First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact: Wash skin with plenty of water.
- First-aid measures after eye contact: Rinse eyes with water as a precaution.
- First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No additional information available

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
- Fire hazard: Combustible liquid.
- Reactivity in case of fire: Thermal decomposition generates: Corrosive vapours.
- Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
- Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
- Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders
- Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
CB-X Assay Dye
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.
Storage temperature: 20 °C

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
methanol (67-56-1)

EU - Occupational Exposure Limits
IOELV TWA (mg/m³): 260 mg/m³
IOELV TWA (ppm): 200 ppm

United Kingdom - Occupational Exposure Limits
WEL TWA (mg/m³): 266 mg/m³
WEL TWA (ppm): 200 ppm
WEL STEL (mg/m³): 333 mg/m³
WEL STEL (ppm): 250 ppm

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Liquid
Colour: No data available
Odour: No data available
Odour threshold: No data available
pH: No data available
CB-X Assay Dye
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : 65 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

methanol (67-56-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat bodyweight</td>
<td>1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s))</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)</td>
</tr>
<tr>
<td>LC50 inhalation (mg/l)</td>
<td>128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecology - general**: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Acute aquatic toxicity**: Not classified

**Chronic aquatic toxicity**: Not classified

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 fish 1 (mg/l)</th>
<th>Source and Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid, conc=85%</td>
<td>138</td>
<td>(Pisces, Pure substance)</td>
</tr>
<tr>
<td>methanol (67-56-1)</td>
<td>15400</td>
<td>(EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>18260</td>
<td>(OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>22000</td>
<td>(OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
<th>Chemical oxygen demand (COD)</th>
<th>ThOD</th>
<th>BOD (% of ThOD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid, conc=85%</td>
<td>Biodegradability: not applicable.</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>methanol (67-56-1)</td>
<td>Readily biodegradable in the soil. Readily biodegradable in water.</td>
<td>0.6 - 1.12 g O₂/g substance</td>
<td>1.42 g O₂/g substance</td>
<td>1.5 g O₂/g substance</td>
</tr>
</tbody>
</table>

**Coommassie Brilliant Blue G 250 Dye (6104-58-1)**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid, conc=85%</td>
<td>Biodegradability in soil: no data available. Biodegradability in water: no data available.</td>
<td>Does not contain bioaccumulative component(s).</td>
</tr>
<tr>
<td>methanol (67-56-1)</td>
<td></td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

**Coommassie Brilliant Blue G 250 Dye (6104-58-1)**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Bioaccumulative potential</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid, conc=85%</td>
<td>No bioaccumulation data available.</td>
<td>No (test)data on mobility of the components available.</td>
</tr>
<tr>
<td>methanol (67-56-1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>Surface tension</th>
<th>Log Koc</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol (67-56-1)</td>
<td>0.023 N/m (20 °C)</td>
<td>0.088</td>
</tr>
</tbody>
</table>
Ecology - soil
Highly mobile in soil.

12.5. Results of PBT and vPvB assessment
Component
methanol (67-56-1)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations
13.1. Waste treatment methods

SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR) : Not regulated
UN-No. (IMDG) : Not regulated
UN-No. (IATA) : Not regulated
UN-No. (ADN) : Not regulated
UN-No. (RID) : Not regulated

14.2. UN proper shipping name
Proper Shipping Name (ADR) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not regulated

IATA
Transport hazard class(es) (IATA) : Not regulated

ADN
Transport hazard class(es) (ADN) : Not regulated

RID
Transport hazard class(es) (RID) : Not regulated

14.4. Packing group
Packing group (ADR) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user
Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated
### Rail transport
Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

##### 15.1.2. National regulations
No additional information available

#### 15.2. Chemical safety assessment
No chemical safety assessment has been carried out

### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Full text of H- and EUH-statements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
</tr>
<tr>
<td>Acute Tox. 3 (Inhalation:vapour)</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>Flam. Liqu. 2</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>STOT SE 1</td>
</tr>
<tr>
<td>STOT SE 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
</tr>
<tr>
<td>H225</td>
</tr>
<tr>
<td>H301</td>
</tr>
<tr>
<td>H314</td>
</tr>
<tr>
<td>H315</td>
</tr>
<tr>
<td>H319</td>
</tr>
<tr>
<td>H331</td>
</tr>
<tr>
<td>H335</td>
</tr>
<tr>
<td>H370</td>
</tr>
<tr>
<td>H371</td>
</tr>
</tbody>
</table>

Safety Data Sheet applicable for regions
: GB - United Kingdom

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>CB-X Solubilization Buffer I</td>
</tr>
<tr>
<td>Product code</td>
<td>127C</td>
</tr>
<tr>
<td>Product group</td>
<td>Blend</td>
</tr>
</tbody>
</table>

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

1.2.1. Relevant identified uses

Main use category: Research purposes

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences
9800 Page Avenue
63132-1429 Saint Louis - United States
T 800-628-7730 - F 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grosvenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Royal Victoria Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre)</td>
<td>Dudley Road B18 7QH Birmingham</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>City Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Cardiff Centre)</td>
<td>Penarth CF64 2XX Cardiff</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gwenwyn Ward, Llandough Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service Edinburgh</td>
<td>Little France Crescent EH16 4SA Edinburgh</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Royal Infirmary of Edinburgh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Guy's &amp; St Thomas' Poisons Unit</td>
<td>Avonley Road SE14 5ER London</td>
<td>+44 20 7188 7188</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medical Toxicology Unit, Guy's &amp; St Thomas' Hospital Trust</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Newcastle Centre)</td>
<td>Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Regional Drugs and Therapeutics Centre, Wolfson Unit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

<table>
<thead>
<tr>
<th>Hazard category</th>
<th>Classification</th>
<th>H301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Category 3</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1B</td>
<td>H314</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Acute Hazard</td>
<td>Category 1</td>
<td>H400</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard</td>
<td>Category 3</td>
<td>H412</td>
</tr>
</tbody>
</table>

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Toxic if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. Causes skin irritation. Causes serious eye damage.
2.2. Label elements

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

Hazard pictograms (CLP):

- GHS05
- GHS06
- GHS09

CLP Signal word: Danger

Hazardous ingredients: sodium hydroxide

Hazard statements (CLP):
- H301 - Toxic if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP):
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor.
- P321 - Specific treatment (see supplemental first aid instruction on this label).
- P330 - Rinse mouth.
- P391 - Collect spillage.
- P405 - Store locked up.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>&gt; 88</td>
<td>Not classified</td>
</tr>
<tr>
<td>potassium sodium tartrate, tetrahydrate</td>
<td>(CAS-No.) 6381-59-5</td>
<td>&lt; 5</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 215-185-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 011-002-00-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>copper(II) sulfate, pentahydrate</td>
<td>(CAS-No.) 7758-99-8</td>
<td>2 - 5</td>
<td>Acute Tox. 3 (Oral), H301, Skin Irrit. 2, H315, Eye Irrit. 2, H319, Aquatic Acute 1, H400, Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 231-847-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 029-004-00-0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hydroxide</td>
<td>(CAS-No.) 1310-73-2</td>
<td>(0.5 &lt;= C &lt; 2) Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 215-185-5</td>
<td>(0.5 &lt;= C &lt; 2) Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 011-002-00-6</td>
<td>(2 &lt;= C &lt; 5) Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(5 &lt;= C &lt; 100) Skin Corr. 1A, H314</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Call a physician immediately.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.


4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after inhalation: AFTER INHALATION OF DUST/MIST: Dry/sore throat. Coughing. ON HEATING: Metal fume fever.
Symptoms/effects after skin contact: Tingling/Irritation of the skin. Burns. Irritation.
Symptoms/effects after eye contact: Serious damage to eyes.
Symptoms/effects after ingestion: Burns.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Fire hazard: DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard: DIRECT EXPLOSION HAZARD: No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD: No data available on indirect explosion hazard.
Reactivity in case of fire: Reacts on exposure to water (moisture) with (some) metals. On burning: release of toxic and corrosive gases/vapours (sulphur oxides) and formation of metallic fumes. Reacts violently with (strong) reducers. Thermal decomposition generates: Corrosive vapours.
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.4. Advice for firefighters
Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions: Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Measures in case of dust release: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Collect spillage.
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.
CB-X Solubilization Buffer I
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling:

- Ensure good ventilation of the work station. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures:

- Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions:
- Store locked up. Store in a well-ventilated place. Keep cool.

Heat and ignition sources:
- KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage:
- KEEP SUBSTANCE AWAY FROM: reducing agents. (strong) bases. water/moisture.

Storage area:
- Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements. Keep out of direct sunlight.

Special rules on packaging:
- SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials:
- SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
sodium hydroxide (1310-73-2)
United Kingdom - Occupational Exposure Limits

| WEL STEL (mg/m³) | 2 mg/m³ |

8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.

Materials for protective clothing:
GIVE GOOD RESISTANCE: butyl rubber. PVC. viton

Hand protection:
Gloves

Eye protection:
Safety glasses

Skin and body protection:
Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing

Respiratory protection:
Dust production: dust mask with filter type P2. Dust production: dust mask with filter type P3

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | Liquid |
| Colour | Blue. |
| Odour | Odourless. |
| Odour threshold | No data available |
| pH | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Melting point | Not applicable |
| Freezing point | No data available |
| Boiling point | Not applicable |
CB-X Solubilization Buffer I
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Flash point : Not applicable
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : Soluble in water. Soluble in methanol. Soluble in glycerol.
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information
VOC content : Not applicable
Other properties : Hygroscopic. Acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reacts on exposure to water (moisture) with (some) metals. On burning: release of toxic and corrosive gases/vapours (sulphur oxides) and formation of metallic fumes. Reacts exothermically with (some) compounds: (increased) risk of fire. Reacts violently with (strong) reducers.

10.2. Chemical stability
Hygroscopic.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Toxic if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

CB-X Solubilization Buffer I
LD50 oral rat 300 mg/kg (Rat)
LD50 dermal rabbit > 2000 mg/kg (Rabbit)

copper(II) sulfate, pentahydrate (7758-99-8)
LD50 oral rat 300 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 482 mg/kg bodyweight; Rat)
LD50 dermal rabbit > 2000 mg/kg (Rabbit; Literature study; OECD 402: Acute Dermal Toxicity)

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Serious eye damage, category 1, implicit
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Harmful to aquatic life with long lasting effects. Very toxic to aquatic life.
Ecology - air: TA-Luft Klasse 5.2.2/III.

Acute aquatic toxicity: Very toxic to aquatic life.
Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

CB-X Solubilization Buffer I

<table>
<thead>
<tr>
<th>Test</th>
<th>Conc. (mg/l)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>1.5 mg/l (24 h; Lepomis macrochirus; TOXICITY TEST)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>0.17 mg/l 24 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>3.8 ppm (24 h; Salmo gairdneri (Oncorhynchus mykiss); Fresh water)</td>
<td></td>
</tr>
</tbody>
</table>

sodium hydroxide (1310-73-2)

<table>
<thead>
<tr>
<th>Test</th>
<th>Conc. (mg/l)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution &gt;=50%)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration)</td>
<td></td>
</tr>
</tbody>
</table>

copper(II) sulfate, pentahydrate (7758-99-8)

<table>
<thead>
<tr>
<th>Test</th>
<th>Conc. (mg/l)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold limit algae 2</td>
<td>0.368 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Read-across)</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

CB-X Solubilization Buffer I

<table>
<thead>
<tr>
<th>Test</th>
<th>Conc. (mg/l)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

sodium hydroxide (1310-73-2)

Persistence and degradability: Biodegradability: not applicable.
Chemical oxygen demand (COD): Not applicable (inorganic)
ThOD: Not applicable (inorganic)

potassium sodium tartrate, tetrahydrate (6381-59-5)

Persistence and degradability: Biodegradability in water: no data available.

copper(II) sulfate, pentahydrate (7758-99-8)

Persistence and degradability: Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD): Not applicable
Chemical oxygen demand (COD): Not applicable
ThOD: Not applicable

12.3. Bioaccumulative potential

CB-X Solubilization Buffer I

Bioaccumulative potential: Bioaccumulable.

sodium hydroxide (1310-73-2)

Bioaccumulative potential: Not bioaccumulative.
potassium sodium tartrate, tetrahydrate (6381-59-5)
Bioaccumulative potential: No bioaccumulation data available.

copper(II) sulfate, pentahydrate (7758-99-8)
Bioaccumulative potential: Bioaccumable.

12.4. Mobility in soil
CB-X Solubilization Buffer I
Ecology - soil: Toxic to flora.

sodium hydroxide (1310-73-2)
Ecology - soil: No (test)data on mobility of the substance available.

copper(II) sulfate, pentahydrate (7758-99-8)
Ecology - soil: Toxic to flora.

12.5. Results of PBT and vPvB assessment
Component
sodium hydroxide (1310-73-2): This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Waste treatment methods:
Product/Packaging disposal recommendations: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into the sewer.
Additional information:
European List of Waste (LoW) code:
- 06 03 13*: solid salts and solutions containing heavy metals
- 03 02 04*: inorganic wood preservatives

SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR): Not regulated
UN-No. (IMDG): Not regulated
UN-No. (IATA): Not regulated
UN-No. (ADN): Not regulated
UN-No. (RID): Not regulated

14.2. UN proper shipping name
Proper Shipping Name (ADR): Not regulated
Proper Shipping Name (IMDG): Not regulated
Proper Shipping Name (IATA): Not regulated
Proper Shipping Name (ADN): Not regulated
Proper Shipping Name (RID): Not regulated

14.3. Transport hazard class(es)
ADR: Transport hazard class(es) (ADR): Not regulated
IMDG: Transport hazard class(es) (IMDG): Not regulated
IATA: Transport hazard class(es) (IATA): Not regulated
ADN: Transport hazard class(es) (ADN): Not regulated
CB-X Solubilization Buffer I
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.4. Packing group
- Transport hazard class(es) (RID): Not regulated
- Packing group (ADR): Not regulated
- Packing group (IMDG): Not regulated
- Packing group (IATA): Not regulated
- Packing group (ADN): Not regulated
- Packing group (RID): Not regulated

14.5. Environmental hazards
- Dangerous for the environment: Yes
- Marine pollutant: Yes
- Other information: No supplementary information available

14.6. Special precautions for user
- Overland transport: Not regulated
- Transport by sea: Not regulated
- Air transport: Not regulated
- Inland waterway transport: Not regulated
- Rail transport: Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content: Not applicable

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:
- Acute Tox. 3 (Oral): Acute toxicity (oral), Category 3
- Aquatic Acute 1: Hazardous to the aquatic environment — Acute Hazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment — Chronic Hazard, Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation, Category 2
- Met. Corr. 1: Corrosive to metals, Category 1
- Skin Corr. 1A: Skin corrosion/irritation, Category 1A
- Skin Corr. 1B: Skin corrosion/irritation, Category 1B
- Skin Irrit. 2: Skin corrosion/irritation, Category 2
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Safety Data Sheet applicable for regions: GB - United Kingdom

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>CB-X Solubilization Buffer II</td>
</tr>
<tr>
<td>Product code</td>
<td>133C</td>
</tr>
<tr>
<td>Product group</td>
<td>Blend</td>
</tr>
</tbody>
</table>

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences
9800 Page Avenue
63132-1429 Saint Louis - United States
T 800-628-7730 - P 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number: Chemtrec **1-800-424-9300** (USA/Canada), **+1-703-527-3887** (Intl)

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture


Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

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

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>&gt; 98</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.
SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Liquid
Colour: No data available
Odour: No data available
### CB-X Solubilization Buffer II

#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

**10.1. Reactivity**
The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**
Stable under normal conditions.

**10.3. Possibility of hazardous reactions**
No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**
None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**
No additional information available

**10.6. Hazardous decomposition products**
Hazardous decomposition products.

#### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

- **Acute toxicity (oral)**: Not classified
- **Acute toxicity (dermal)**: Not classified
- **Acute toxicity (inhalation)**: Not classified
- **Skin corrosion/irritation**: Not classified
- **Serious eye damage/irritation**: Not classified
- **Respiratory or skin sensitisation**: Not classified
- **Germ cell mutagenicity**: Not classified
- **Carcinogenicity**: Not classified
- **Reproductive toxicity**: Not classified
- **STOT-single exposure**: Not classified
- **STOT-repeated exposure**: Not classified
- **Aspiration hazard**: Not classified

#### SECTION 12: Ecological information

**12.1. Toxicity**

- **Ecology - general**: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
- **Acute aquatic toxicity**: Not classified
- **Chronic aquatic toxicity**: Not classified
12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods of CB-X Solubilization Buffer II:

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Waste treatment methods.</td>
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</tbody>
</table>

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN:

#### 14.1. UN number

<table>
<thead>
<tr>
<th>UN-No. (ADR)</th>
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<tbody>
<tr>
<td>UN-No. (IMDG)</td>
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<td>UN-No. (IATA)</td>
<td>: Not regulated</td>
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<tr>
<td>UN-No. (ADN)</td>
<td>: Not regulated</td>
</tr>
<tr>
<td>UN-No. (RID)</td>
<td>: Not regulated</td>
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#### 14.2. UN proper shipping name

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>Proper Shipping Name (IATA)</td>
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<td>: Not regulated</td>
</tr>
<tr>
<td>Proper Shipping Name (RID)</td>
<td>: Not regulated</td>
</tr>
</tbody>
</table>

#### 14.3. Transport hazard class(es)

<table>
<thead>
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</tr>
</thead>
<tbody>
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<td>IATA</td>
<td></td>
</tr>
<tr>
<td>ADN</td>
<td></td>
</tr>
<tr>
<td>RID</td>
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#### 14.4. Packing group

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</tr>
<tr>
<td>ADN</td>
<td></td>
</tr>
<tr>
<td>RID</td>
<td></td>
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#### 14.5. Environmental hazards

<table>
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<tr>
<th>Hazard</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Dangerous for the environment</td>
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</tr>
<tr>
<td>Marine pollutant</td>
<td>: No</td>
</tr>
<tr>
<td>Other information</td>
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</table>

#### 14.6. Special precautions for user

<table>
<thead>
<tr>
<th>Transportation Mode</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overland transport</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Transport by sea</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Air transport</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>
CB-X Solubilization Buffer II
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.