INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME: Redgen

Catalogue No.: RED 010

Kit components:
- Redgen Reagent
- Positive Control
- Negative Control
- Disposable slides with eight reaction circles
- Disposable sample / control dispensing pipettes
- Reagent dropper for dispensing Redgen reagent suspension.
- Mixing stick ladder
- Rubber teat
- Package Insert

COMPONENTS AND HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>HAZARDOUS INGREDIENT</th>
<th>CLASSIFICATION SUBSTANCE</th>
<th>EINECS NR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redgen Reagent</td>
<td>Material from animal origin 0.1 % Sodium Azide (Na₃N)</td>
<td>T+; R28-32</td>
<td>247-852-1</td>
</tr>
<tr>
<td>Positive Control</td>
<td>Material from animal origin 0.1% Sodium Azide (Na₃N)</td>
<td>T+; R28-32</td>
<td>247-852-1</td>
</tr>
<tr>
<td>Negative Control</td>
<td>Material from animal origin 0.1% Sodium Azide (Na₃N)</td>
<td>T+; R28-32</td>
<td>247-852-1</td>
</tr>
</tbody>
</table>

HAZARDS IDENTIFICATION

According to 1999/45/EG, the preparation is classified as dangerous.

<table>
<thead>
<tr>
<th>CLASSIFICATION PREPARATION</th>
<th>RISKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xn; R22, S23-46-61</td>
<td>Harmful if swallowed</td>
</tr>
</tbody>
</table>

FIRST AID MEASURES

Eye contact:
- Rinse immediately with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.
- Do not apply neutralizing agents
- Consult a doctor/medical service

Skin contact:
- Rinse with water
- Consult a doctor/medical service if irritation persists

After inhalation:
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration
- Consult a doctor/medical service if breathing problems develop

After ingestion:
- Never give water to an unconscious person
- Wash out mouth with water provided person is conscious.
- Do not induce vomiting
- Consult a doctor/medical service if you feel unwell

FIRE FIGHTING MEASURES

Suitable extinguishing media:
- All non combustible extinguishing media allowed

Unsuitable extinguishing media:
- For surrounding fires: all extinguishing media allowed
- No data available

Special exposure hazards:
- On heating/burning: formation of small quantities of nitrous vapors, carbon monoxide, carbon dioxide
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

Instructions:
- Heat/fire exposure: compressed air/oxygen apparatus
- Heat/fire exposure: gas-tight suit
ACCIDENTAL RELEASE MEASURES

Personal protection: see 8

Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Contain leaking substance, pump over in suitable containers
- Plug the leak, cut off the supply
- Dam up the liquid spill

Clean-up:
- Take up liquid spill into absorbent material
- Scoop absorbed substance into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

HANDLING AND STORAGE

Handling:
- Observe normal hygiene standards
- Do not discharge the waste into the drain
- Remove and clean contaminated clothing

Storage:
- Provide for a tub to collect spills
- Meet the legal requirements
- Keep away from: heat sources, acids
- Storage temperature: see component label

Specific purposes: - NA

EXPOSURE CONTROLS/PERSONAL PROTECTION

1. Exposure limits

<table>
<thead>
<tr>
<th>Sodium Azide:</th>
<th>mg/m³</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV-TWA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TLV-STEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TLV-Ceiling</td>
<td>0.29 (N₃N₃)</td>
<td>0.11(HN₃)</td>
</tr>
<tr>
<td>OES-LTEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>OES-STEL</td>
<td>0.3 (N₃N₃)</td>
<td>-</td>
</tr>
<tr>
<td>MAK</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>TRK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-TGG 8h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-TGG 15min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-Ceiling</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>VMA 8h</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>VMA 15min</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>GWBB 8h</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>GWBB 15min</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Momentary value</td>
<td>0.29</td>
<td>0.11</td>
</tr>
<tr>
<td>EC</td>
<td>0.1</td>
<td>-</td>
</tr>
<tr>
<td>EC-STEL</td>
<td>0.3</td>
<td>-</td>
</tr>
</tbody>
</table>

2. Control of Exposure

Provide sufficient ventilation
1. **Exposure to persons**

*Respiratory Protection*  - Insufficient ventilation: wear respiratory protection

*Hand Protection*  - Gloves – compatible chemical resistant gloves

*Eye Protection*  - Face shields

*Skin Protection*  - Protective Clothing

2. **Exposure to environment**

Aquatic Classification: N; R50-53  - Very toxic to aquatic organisms.  
May cause long term adverse effects in the aquatic environment

Ozone Classification: No data available

The substance is considered as not bioaccumulative:

- Log Pow = NA
- BCF = NA

Not Readily degradable

**PHYSICAL AND CHEMICAL PROPERTIES**

- Redgen Reagent: Suspension
- Positive & Negative Controls: Liquid

**STABILITY AND REACTIVITY**

*Stability*: The component is stable until expiry date if stored in specified conditions (see label)

*Reactivity/Hazardous decomposition products*: No hazardous decomposition products are formed in high quantities

*Conditions/Materials to avoid*: Keep away from metal and acids (Components contains azide)

**TOXICOLOGICAL INFORMATION**

**Toxicity and effects**

*Acute toxicity:*
- LD50 oral rat: 27 mg/kg
- LD50 dermal rabbit: 20 mg/kg

*Acute effects*: Harmful if swallowed

*Chronic toxicity*: Carcinogenicity (TLV) : A4

**Routes of exposure**

Ingestion, inhalation, eyes and skin

Caution! These components contain a substance that is absorbed through the skin (sodium azide).

**ECOLOGICAL INFORMATION**

**Aquatic toxicity**

* Sodium Azide:*
- LC50 (96 h): 0.8 mg/l (SALMO GAIIRDNERI/ONCORHYNCHUS MYKISS)
- LC50 (96h): 0.7 mg/l (LEPOMIS MACROCHIRUS)
- LC50 (48h): 9 mg/l (GAMMARUS SP.)

**Other information**

- Effect on the ozone layer: Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect: No data available
- Effect on waste water purification: No data available

**WASTE DISPOSAL CONSIDERATIONS**


Disposal methods:
- The positive and negative controls are potentially infectious. It should be disposed of following established safety procedures and local regulations.
- The component must be considered as hazardous waste. It should be disposed of following local regulations.
- Sodium Azide reacts with lead and copper plumbing forming highly explosive metal azides.

TRANSPORT INFORMATION

No restrictions.

REGULATORY INFORMATION

Classification according to directives 67/548/EEC, 1999/45/EC.

Contains Sodium azide

Xν

R22, S23-46-61

N,N,

R22: Harmful if swallowed
S23: Do not breathe vapour
S46: If swallowed, seek medical advice immediately and show this container or label
S61: Avoids release to the environment. Refer to special instructions/safety data sheets.

OTHER INFORMATION

This product is designed for use by professionals.

The animal source material included in this kit are considered to be free from Risk for BSE/CJD & other zoonoses and judged to be non-existent based on: The material used from animal origin are sources from non-BSE countries (Certificate available). But, handling of reagents, serum or plasma specimens should be in accordance with local safety procedures.

Risk phrases referred to in paragraph 2 & 3:
R22: Harmful if swallowed
R28: Very toxic if swallowed
R32: Contact with acids liberates very toxic gas
R50: Very toxic to aquatic organisms
R53: May cause long-term adverse effects in the aquatic environment

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

It remains the user’s own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.