SAFETY DATA SHEET
(Europe)

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:
KOVA® LIQUA-TROL CONTROLS
Component: Liqua-Trol Abnormal - Level I
37036, 87110, 87111, 87112, 87176, 87177, 87222, 87228, 87111E, 87112E, 87176E, 87177E, 87222E, 872228E

1.2 Relevant identified uses of the mixture and uses advised against:
For *in vitro* diagnostic and professional use only.
KOVA Liqua-Trol Level I (Abnormal), Level II (Normal), Abnormal with Microscopics, Normal with Microscopic Additives.

1.3 Details of the supplier of the safety data sheet:
Kova International, Inc.
7272 Chapman Avenue, Suite B
Garden Grove, CA 92841
United States
Tel: +1-714-902-1700
www.kovaintl.com

1.4 Emergency telephone number: Contact your local Poison Center.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the mixture:
Classification according to Regulation 1272/2008/EC (CLP):
Not considered as hazardous mixture.
Warning H statements: none.

2.2 Label elements:
Warning H statements: none.
Precautionary P statements:
P280 - Wear protective clothing.

2.3 Other hazards:
The product has no other known specific hazards for human or environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:
Not applicable.

3.2 Mixture:
Description: Preparation

The product does not contain any substances which considered as hazardous, or the concentration of hazardous substances does not reach the extent stated in the relevant regulations. Therefore, it is not necessary to indicate them in the safety data sheet.
SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

IN CASE OF INGESTION:

Measures:
- Do not induce vomiting unless directed to do so by medical personnel.
- Never give anything by mouth to an unconscious person.
- Get medical attention if adverse health effects persist or are severe.

IN CASE OF INHALATION:

Measures:
- If inhaled, remove to fresh air.
- If breathing is difficult, give oxygen.
- If not breathing, give artificial respiration.
- Get medical attention if adverse health effects persist or are severe.

IN CASE OF SKIN CONTACT:

Measures:
- In case of contact, immediately flush skin with plenty of water.
- Remove contaminated clothing and shoes.
- Wash clothing before reuse.
- Clean shoes thoroughly before reuse.
- Get medical attention if adverse health effects persist or are severe.

IN CASE OF EYE CONTACT:

Measures:
- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
- Get medical attention if adverse health effects persist or are severe.

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:
Use an extinguishing agent suitable for the surrounding fire.

5.1.2 Unsuitable extinguishing media:
Not applicable.

5.2 Special hazards arising from the substance or mixture:
This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products:
Decomposition products may include the following materials: carbon oxides, nitrogen oxides, sulfur oxides, metal oxide/oxides.

5.3 Advise for firefighters:
Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:
Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

6.1.2 For emergency responders:
No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilt material.
Avoid breathing vapour or mist.
Provide adequate ventilation.
Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment (see section 8).
6.2 **Environmental precautions:**
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 **Methods and material for containment and cleaning up:**
Small spill:
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 **Reference to other sections:**
For further and detailed information see section 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

7.1 **Precautions for safe handling:**
Observe conventional hygiene precautions. Wash thoroughly after handling. Technical measures: Ensure adequate ventilation.
Precautions against fire and explosion: No special measures required.

7.2 **Conditions for safe storage including any incompatibilities:**
Technical measures and storage condition:
Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Incompatible materials: oxidising agents, alkalis, metals, strong acids and heat. Packaging material: Use original container.

7.3 **Specific end use(s):**
No specific instructions available.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

8.1 **Control parameters:**
Occupational exposure limit values: The components of the mixture are not regulated with exposure limit value.

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<th>Remarks:</th>
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8.2 Exposure controls:  
In case of a hazardous material with no controlled concentration limit, it is the employer’s duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1 Appropriate engineering controls:  
In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. 
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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

KOVA® LIQUA-TROL CONTROLS  
Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

1.  Skin protection:  
a. Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

2.  Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

3.  Thermal hazards: none known.

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

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert’s advice should be sought out before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

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<td>7. Flash point:</td>
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<td>8. Evaporation rate:</td>
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<td>9. Flammability (solid, gas):</td>
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</tbody>
</table>
9.2 Other information:
No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:
None known.

10.2 Chemical stability:
The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.3 Possibility of hazardous reactions:
None known.

10.4 Conditions to avoid:
None known.

10.5 Incompatible materials:
Incompatible with: oxidising agents, alkalis, metals, strong acids and heat.

10.6 Hazardous decomposition products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:
Acute toxicity: none known.
Skin corrosion/irritation: none known.
Serious eye damage/eye irritation: none known.
Respiratory or skin sensitisation: none known.
Germ cell mutagenicity: none known.
Carcinogenicity: none known.
Reproductive toxicity: none known.
STOT-single exposure: none known.
STOT-repeated exposure: none known.
Aspiration hazard: none known.

11.1.1 For substances subject to registration, brief summaries of the information derived from the test conducted:
No data available.

11.1.2 Relevant toxicological properties of the hazardous substances:
No data available.

11.1.3 Information on likely routes of exposure:
Ingestion, inhalation, skin contact, eye contact.

11.1.4 Symptoms related to the physical, chemical and toxicological characteristics:
Potential acute health effects
Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.
Over-exposure signs/symptoms:
Inhalation/Ingestion: Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Skin: No specific data.
Eyes: No specific data.
Target organs: Not available.

Other adverse effects: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

11.1.5 Delayed and immediate effects as well as chronic effects from short and long-term exposure:
No data available.

11.1.6 Interactive effects:
No data available.
11.1.7 Absence of specific data:
No information.

11.1.8 Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:
No data available.

12.2 Persistence and degradability:
This product is unlikely to biodegrade at a significant rate.

12.3 Bioaccumulation potential:
No data available.

12.4 Mobility in soil:
No data available.

12.5 Results of PBT and vPvB assessment:
No data available.

12.6 Other adverse effects:
No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
Disposal according to the local regulations.

13.1.1 Information regarding the disposal of the product:
The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

European Waste Code:
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.

13.1.2 Information regarding the disposal of the packaging:
Dispose according to the relevant regulations.

13.1.3 Physical/chemical properties that may affect waste treatment options shall be specified:
None known.

13.1.4 Sewage disposal:
None known.

13.1.5 Special precautions for any recommended waste treatment:
No data available.

SECTION 14: TRANSPORT INFORMATION

Not dangerous good in sense of the transport regulations.

14.1 UN Number:
None.

14.2 UN proper shipping name:
None.

14.3 Transport hazard class(es):
None.

14.4 Packaging group:
None.

14.5 Environmental hazards:
No relevant information available.

14.6 Special precautions for user:
No relevant information available.

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:


15.2 Chemical safety assessment: no information available.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: none.

Full text of the abbreviations in the safety data sheet:
DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Data sources:
Safety data sheet previously issued by the manufacturer was dated on (27.02.2015).

Relevant H-Phrases (number and full text) of Section 2 and 3: none.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Ltd.

Professional help regarding the explanation of the safety data sheet:
+36 70 335 8480; info@msds-europe.hu

Download of safety data sheet:
SAFETY DATA SHEET  
(Europe)

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1  Product identifier:

KOVA® LIQUA-TROL CONTROLS

Component: Liqua-Trol Normal - Level II
37036, 87112, 87122, 87123, 87222, 87228, 87112E, 87122E, 87123E, 87222E, 872228E

1.2  Relevant identified uses of the mixture and uses advised against:

For in vitro diagnostic use only for professional use.

KOVA Liqua-Trol Level I (Abnormal), Level II (Normal), Abnormal with Microscopics, Normal with Microscopic Additives.

1.3  Details of the supplier of the safety data sheet:

Kova International, Inc.
7272 Chapman Avenue, Suite B
Garden Grove, CA 92841
United States
Tel: +1-714-902-1700
www.kovaintl.com

1.4  Emergency telephone number:  Contact your local Poison Center.

SECTION 2: HAZARDS IDENTIFICATION

2.1  Classification of the mixture:

Classification according to Regulation 1272/2008/EC (CLP):
Acute toxicity 4 – H302
Hazardous to the aquatic environment, Chronic 3 – H412

Warning H statements:
H302 - Harmful if swallowed,
H412 - Hazardous to the aquatic environment with long lasting effects.

2.2  Label elements:

Components which define the hazards: Sodium azide

Warning H statements:
H302 - Harmful if swallowed.
H412 - Harmful to aquatic life with long lasting effects.

EUH 208 - Contains 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.

Precautionary P statements:
P273 - Avoid release to the environment.
P280 - Wear protective clothing.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 – Do NOT induce vomiting.

2.3 Other hazards:
The product has no other known specific hazards for human or environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:
Not applicable.

3.2 Mixture:
Description: Preparation

<table>
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<th>Description</th>
<th>CAS number</th>
<th>EU number</th>
<th>Conc. (%)</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EUH032 Aquatic Chronic 1</td>
</tr>
</tbody>
</table>

For the full text of H phrases: see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:
IN CASE OF INGESTION:
Measures:
- Do not induce vomiting unless directed to do so by medical personnel.
- Never give anything by mouth to an unconscious person.
- Get medical attention if adverse health effects persist or are severe.

IN CASE OF INHALATION:
Measures:
- If inhaled, remove to fresh air.
- If breathing is difficult, give oxygen.
- If not breathing, give artificial respiration.
- Get medical attention if adverse health effects persist or are severe.

IN CASE OF SKIN CONTACT:
Measures:
- In case of contact, immediately flush skin with plenty of water.
- Remove contaminated clothing and shoes.
- Wash clothing before reuse.
- Clean shoes thoroughly before reuse.
- Get medical attention if adverse health effects persist or are severe.

IN CASE OF EYE CONTACT:
Measures:
- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
- Get medical attention if adverse health effects persist or are severe.

4.2 Most important symptoms and effects, both acute and delayed:
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

4.3 Indication of any immediate medical attention and special treatment needed:
No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:
5.1.1 Suitable extinguishing media:
Use an extinguishing agent suitable for the surrounding fire.
5.1.2 Unsuitable extinguishing media:
Not applicable.

5.2 Special hazards arising from the substance or mixture:
This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and
prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products:
Decomposition products may include the following materials: carbon oxides, nitrogen oxides, sulfur oxides, metal
oxide/oxides.

5.3 Advise for firefighters:
Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
6.1.1 For non-emergency personnel:
Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field
of accident.

6.1.2 For emergency responders:
No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilt material.
Avoid breathing vapour or mist.
Provide adequate ventilation.
Wear appropriate respirator when ventilation is inadequate.
Put on appropriate personal protective equipment (see section 8).

6.2 Environmental precautions:
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up:
Small spill:
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble or absorb with
an inert dry material and place in an appropriate waste disposal container.
Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections:
For further and detailed information see section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:
Observe conventional hygiene precautions.
Wash thoroughly after handling.
Technical measures:
Ensure adequate ventilation.
Precautions against fire and explosion:
No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:
Technical measures and storage condition:
Store between the following temperatures: 2 to 8 °C (35.6 to 46.4 °F).
Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible
materials and food and drink.
Keep container tightly closed and sealed until ready for use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabelled containers.
Use appropriate containment to avoid environmental contamination.
Incompatible materials: oxidising agents, alkalis, metals, strong acids and heat.

Packaging material: Use original container.

7.3 Specific end use(s):
No specific instructions available.
SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit values:

**Sodium azide** (CAS: 26628-22-8): EU OEL (Europe, 4/2006). Skin Notes: Indicative

Short term limit value: 0.3 mg/m³ 15 minute(s). Limit value: 0.1 mg/m³ 8 hour(s).

<table>
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<th>DNEL</th>
<th>Routes of exposure</th>
<th>Exposure frequency:</th>
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</table>

8.2 Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1 Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

8.2.2 Individual protection measures, such as personal protective equipment:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing.

Ensure that eyewash stations and safety showers are close to the workstation location.

1. Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

2. Skin protection:
   a. Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
   b. Other: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

3. Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.


8.2.3 Environmental exposure controls:

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

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Appearance</td>
<td>Green/Yellow liquid</td>
<td></td>
</tr>
<tr>
<td>2. Odour</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>3. Odour threshold</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>4. pH value</td>
<td>7.5 to 8</td>
<td>[Basic]</td>
</tr>
<tr>
<td>5. Melting point/ freezing point</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>6. Initial boiling point and boiling range</td>
<td>~100 °C (212 °F)</td>
<td></td>
</tr>
<tr>
<td>7. Flash point</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>8. Evaporation rate</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>9. Flammability (solid, gas)</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>10. Upper/lower flammability or explosive limits</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>11. Vapour pressure</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>12 Vapour density</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>13 Relative density</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>15. Partition coefficient: n-octanol/water</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>16. Auto-ignition temperature</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>17. Decomposition temperature</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>18. Viscosity</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>19. Explosive properties</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>20. Oxidizing properties</td>
<td>no data available</td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other information:
No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:
None known.

10.2 Chemical stability:
The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.3 Possibility of hazardous reactions:
None known.

10.4 Conditions to avoid:
None known.

10.5 Incompatible materials:
Incompatible with: oxidising agents, alkalis, metals, strong acids and heat.

10.6 Hazardous decomposition products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:
Acute toxicity: harmful if swallowed.
Skin corrosion/irritation: none known.
Serious eye damage/eye irritation: none known.
Respiratory or skin sensitisation: none known.
Germ cell mutagenicity: none known.
Carcinogenicity: none known.
Reproductive toxicity: none known.
STOT-single exposure: none known.
STOT-repeated exposure: none known.
Aspiration hazard: none known.
11.1.1 For substances subject to registration, brief summaries of the information derived from the test conducted:
No data available.

11.1.2 Relevant toxicological properties of the hazardous substances:

Acute toxicity:
**Sodium azide** (CAS: 26628-22-8):
- LD50 (dermal, rat): 50 mg/kg
- LD50 (dermal, rabbit): 20 mg/kg
- LD50 (oral, rat): 27 mg/kg
Conclusion: not available

11.1.3 Information on likely routes of exposure:
Ingestion, inhalation, skin contact, eye contact.

11.1.4 Symptoms related to the physical, chemical and toxicological characteristics:

Potential acute health effects:
- Inhalation: No known significant effects or critical hazards.
- Ingestion: Harmful if swallowed.
- Skin contact: No known significant effects or critical hazards.
- Eye contact: No known significant effects or critical hazards.

Over-exposure signs/symptoms:
- Inhalation/Ingestion: Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Skin: No specific data.
- Eyes: No specific data.
- Target organs: Contains material which may cause damage to the following organs: mucous membranes, skin.

Other adverse effects: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

11.1.5 Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Harmful if swallowed.
Contains 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.

11.1.6 Interactive effects:
No data available.

11.1.7 Absence of specific data:
No information.

11.1.8 Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:
Harmful to aquatic life with long lasting effects.
Aquatic ecotoxicity
**Sodium azide** (CAS: 26628-22-8):
- Acute EC50 (Daphnia - Fresh water) 4.2 to 6.2 mg/l/48 hours
- Acute LC50 (Fish - Fresh water): 0.68 mg/l/96 hours
- Acute LC50 (Fish - Fresh water): 2750 µg/l/96 hours
Conclusion: not available.

12.2 Persistence and degradability:
This product is unlikely to biodegrade at a significant rate.

12.3 Bioaccumulation potential:
No data available.

12.4 Mobility in soil:
No data available.

12.5 Results of PBT and vPvB assessment:
No data available.

12.6 Other adverse effects:
Hazardous to the ozone layer.
SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
Disposal according to the local regulations.

13.1.1 Information regarding the disposal of the product:
The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. The classification of the product may meet the criteria for a hazardous waste.

European Waste Code:
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.

13.1.2 Information regarding the disposal of the packaging:
Dispose according to the relevant regulations.

13.1.3 Physical/chemical properties that may affect waste treatment options shall be specified:
None known.

13.1.4 Sewage disposal:
None known.

13.1.5 Special precautions for any recommended waste treatment:
No data available.

SECTION 14: TRANSPORT INFORMATION

Not dangerous good in sense of the transport regulations.

14.1 UN Number:
None.

14.2 UN proper shipping name:
None.

14.3 Transport hazard class(es):
None.

14.4 Packaging group:
None.

14.5 Environmental hazards:
No relevant information available.

14.6 Special precautions for user:
No relevant information available.

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:


15.2 Chemical safety assessment: no information available.
SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: none.

Full text of the abbreviations in the safety data sheet:
DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Data sources:
Safety data sheet previously issued by the manufacturer was dated on (27.02.2015).

Methods used for the classification according to Regulation 1272/2008/EC:

<table>
<thead>
<tr>
<th>Acute toxicity 4 - H302</th>
<th>Based on calculation method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous to the aquatic environment, Chronic 3 - H412</td>
<td>Based on calculation method</td>
</tr>
</tbody>
</table>

Relevant H-Phrases (number and full text) of Section 2 and 3:
H300 – Fatal if swallowed.
H302 – Harmful if swallowed.
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.
EUH 032 – Contact with acids liberates very toxic gas.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.