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

1.1 Product identifier

*Iodine reagent*

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

1.2.1 Relevant uses

Analytics

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company: BioAnalyt GmbH
Rheinstr. 17
14513 Teltow / GERMANY
Phone +49 (0)3328-35150-00
Fax +49 (0)3328-35150-29
Homepage www.bioanalyt.com
E-mail contact@bioanalyt.com

Address enquiries to
Technical information: contact@bioanalyt.com
Safety Data Sheet: sdb@chemiebuero.de

1.4 Emergency telephone number

Company: +49 (0)3328-35150-00 Mo-Fr 8:30 - 17:30

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with GHS/CLP-directives.

- Hazard pictograms: none
- Signal word: none
- Hazard statements: none
- Precautionary statements: none

2.3 Other hazards

Other hazards: none

SECTION 3: Composition / Information on ingredients

Product-type:
The product is a mixture.

Comment on component parts

No dangerous components.
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Take off contaminated clothing and wash before reuse.

Inhalation
Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact
When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Seek medical advice.

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

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

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Product itself is non-combustible. Fire extinguishing method of surrounding areas must be
considered.

Extinguishing media that must not be used
Full water jet.

5.2 Special hazards arising from the substance or mixture
Risk of formation of toxic pyrolysis products.
Hydrogen iodide (HI).

5.3 Advice for firefighters
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within
the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective equipment. For personal protection see SECTION 8.

6.2 Environmental precautions
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up
Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections
See SECTION 8+13
7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink or smoke when using this product.
Take off contaminated clothing and wash before reuse.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Keep only in original container.
Do not store together with oxidizing agents.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)
not applicable

8.2 Exposure controls

Additional advice on system design: Ensure adequate ventilation on workstation.
Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

Eye protection: If there is a risk of splashing:
safety glasses (EN 166:2001)

Hand protection: The details concerned are recommendations. Please contact the glove supplier for further information.
> 0.11 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection: Protective clothing.

Other: Do not breathe vapour/spray.
Avoid contact with eyes and skin.

Respiratory protection: Not required under normal conditions.

Thermal hazards: not applicable

Delimitation and monitoring of the environmental exposition: Comply with applicable environmental regulations limiting discharge to air, water and soil.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>colourless</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH-value</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH-value [1%]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling point [°C]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas) [°C]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>none</td>
</tr>
<tr>
<td>Vapour pressure/gas pressure [kPa]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Density [g/ml]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density [kg/m³]</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>miscible</td>
</tr>
<tr>
<td>Partition coefficient [n-octanol/water]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Relative vapour density determined in air</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation speed</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point [°C]</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition temperature [°C]</td>
<td>not self-igniting</td>
</tr>
<tr>
<td>Decomposition temperature [°C]</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkali metals.
Reactions with oxidizing agents.

10.4 Conditions to avoid

Sensitivity to light.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

- **Serious eye damage/irritation**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Skin corrosion/irritation**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Respiratory or skin sensitisation**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Specific target organ toxicity — single exposure**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Specific target organ toxicity — repeated exposure**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Mutagenicity**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Reproduction toxicity**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Carcinogenicity**: Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
- **Aspiration hazard**: Based on the available information, the classification criteria are not fulfilled.
- **General remarks**: May cause irritation of eye. Frequent persistent contact with the skin can cause skin irritation.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

- **Behaviour in environment compartments**: No information available.
- **Behaviour in sewage plant**: No information available.
- **Biological degradability**: The methods for determining the biological degradability are not applicable to inorganic substances. The organic component of the product is biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available. Do not discharge product unmonitored into the environment or into the drainage.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 160509

Contaminated packaging
Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150102
150107

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable
14.4 Packing group

Transport by land according to ADR/RID: not applicable

Inland navigation (ADN): not applicable

Marine transport in accordance with IMDG: not applicable

Air transport in accordance with IATA: not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID: no

Inland navigation (ADN): no

Marine transport in accordance with IMDG: no

Air transport in accordance with IATA: no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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


NATIONAL REGULATIONS (GB):

- Observe employment restrictions for people
- Observed employment restrictions for young people.

- VOC (2010/75/CE): 0 %

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.
SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Modified position

none

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