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

1.1 Product identifier

Iodine Additive

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 is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th>Signal word</th>
<th>Hazard statements</th>
<th>Precautionary statements</th>
<th>Special labelling</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>EUH210 Safety data sheet available on request.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

None

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.98 - &lt; 1.1</td>
<td>Phosphoric acid</td>
</tr>
</tbody>
</table>


Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.
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.

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).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13
SECTION 7: Handling and storage

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.
Provide acid-resistant floor.
Keep only in original container.
Do not store together with oxidizing agents.
Do not store with alkalies.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>Long-term exposure: 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Short-term exposure (15-minute): 2 mg/m³</td>
</tr>
</tbody>
</table>

Ingredients with occupational exposure limits to be monitored (EU)

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>Eight hours: 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Short-term (15-minute): 2 mg/m³</td>
</tr>
</tbody>
</table>
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
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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form
Liquid

Color
Colourless

Odor
No information available.

Odour threshold
No information available.

pH-value
Acidic

pH-value [1%]
No information available.

Boiling point [°C]
No information available.

Flash point [°C]
Not applicable

Flammability (solid, gas) [°C]
Not applicable

Lower explosion limit
Not applicable

Upper explosion limit
Not applicable

Oxidising properties
None

Vapour pressure/gas pressure [kPa]
No information available.

Density [g/ml]
No information available.

Bulk density [kg/m³]
Not applicable

Solubility in water
Soluble

Partition coefficient [n-octanol/water]
No information available.

Viscosity
No information available.

Relative vapour density determined in air
No information available.

Evaporation speed
No information available.

Melting point [°C]
No information available.

Autoignition temperature [°C]
Not self-igniting

Decomposition temperature [°C]
No information available.

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 alkalies (lyes).
Reactions with oxidizing agents.

10.4 Conditions to avoid
No information available.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Toxicological data of complete product are not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, CAS: 7664-38-2</td>
<td>No classification due to substance-specific concentration limits.</td>
</tr>
<tr>
<td>LD50, dermal, Rabbit: 2740 mg/kg (Lit.)</td>
<td></td>
</tr>
<tr>
<td>LD50, oral, Rat: 1530 mg/kg (Lit.)</td>
<td></td>
</tr>
<tr>
<td>LC50, inhalative, Rat: &gt; 0,85 mg/l (1h) (Lit.)</td>
<td></td>
</tr>
</tbody>
</table>

Serious eye damage/irritation
Toxicological data of complete product are not available.
No classification due to substance-specific concentration limits.

Skin corrosion/irritation
Toxicological data of complete product are not available.
No classification due to substance-specific concentration limits.

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
Toxicological data of complete product are not available.
Based on the available information, the classification criteria are not fulfilled.

General remarks
none

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, CAS: 7664-38-2</td>
<td></td>
</tr>
<tr>
<td>LC50, (96h), fish: 3-3,5 mg/l (Lit.)</td>
<td></td>
</tr>
<tr>
<td>LC0, fish: 100-1000 mg/l (Lit.)</td>
<td></td>
</tr>
</tbody>
</table>
12.2 Persistence and degradability

- Behaviour in environment compartments: No information available.
- Behaviour in sewage plant: Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
- Biological degradability: The methods for determining the biological degradability are not applicable to inorganic substances.

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

EEC-REGULATIONS

TRANSPORT-REGULATIONS

NATIONAL REGULATIONS (GB):
CHIP 3/ CHIP 4
- Observe employment restrictions for 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 Hazard statements
(SECTION 03)

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

16.2 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
ECC = 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

16.3 Other information
Classification procedure

Modified position none