# Safety Data Sheet
## according to Regulation (EC) No. 1907/2006 (REACH)

| | | | |
|---|---|---|---|
| **Trade name :** | Hellmanex lll | | |
| **Revision :** | 29.09.2015 | **Version :** | 9.0.2 |
| **Print date :** | 26.11.2015 | | |

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

### 1.1 Product identifier
Hellmanex lll

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

### 1.3 Details of the supplier of the safety data sheet
#### Supplier :
Hellma GmbH & Co. KG

**Street :** Klosterrunsstrasse 5

**Postal code/city :** 79379 Müllheim

**Telephone :** +49 7631 182 1000

**Telefax :** +49 7631 182 1011

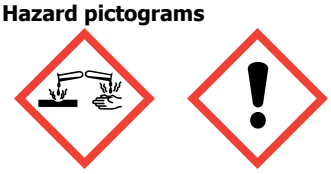
**Information contact :** +49 7631 182 1010; www.hellma.com

### 1.4 Emergency telephone number
Giftnotruf der Charité - Universitätsmedizin Berlin, 12203 Berlin, Notruf: +49 30 19 24 0

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
#### Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.
Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.
STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

### 2.2 Label elements
#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]
**Hazard pictograms**



Corrosion (GHS05) · Exclamation mark (GHS07)

**Signal word**

Warning

**Hazard components for labelling**

TRIPOTASSIUM ORTHOPHOSPHATE ; CAS No. : 7778-53-2

**Hazard statements**

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

**Precautionary statements**

| | |
|---|---|
| P234 | Keep only in original container. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P312 | Call a POISON CENTER if you feel unwell. |

| | |
|---|---|
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |

### 2.3 Other hazards

None

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

**Hazardous ingredients**

TRIPOTASSIUM ORTHOPHOSPHATE ; EC No. : 231-907-1; CAS No. : 7778-53-2

Weight fraction : ≥ 15 - < 30 %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

**Additional information**

Full text of R-, H- and EUH-phrases: see section 16.

**Regulation (EC) No. 648/2004: Labelling for contents**

| | | |
|---|---|---|
| phosphates | 15 - < 30 | % |
| anionic surfactants | < 5 | % |
| non-ionic surfactants | < 5 | % |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Flush away with water and rinse. In case of skin irritation, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritating to eyes, respiratory system and skin.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

The product itself does not burn.

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet, foam, extinguishing powder.

#### Unsuitable extinguishing media

Full water jet

### 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products
Fire generates toxic gases.

### 5.3 Advice for firefighters
### Special protective equipment for firefighters
In case of fire: Wear self-contained breathing apparatus.

### 5.4 Additional information
None

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures
Take the precautions customary when handling chemicals.

### 6.2 Environmental precautions
Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections
See Chapter 7, 8 & 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling
Avoid contact with skin and eyes.

### Protective measures
**Measures to prevent fire**
No anti-explosion measures necessary.

### 7.2 Conditions for safe storage, including any incompatibilities
### Hints on joint storage
**Storage class :** 8B
**Storage class (TRGS 510) :** 8B

### Further information on storage conditions
Keep only in the original container in a cool, well-ventilated place. Do not store together with Acids, oxidizing agents,

### 7.3 Specific end use(s)
None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters
None

### 8.2 Exposure controls
### Personal protection equipment
### Eye/face protection
Eye glasses with side protection

### Skin protection
**Hand protection**
In full contact: Glove material: nitrile rubber Layer thickness: 0.4 mm Breakthrough time: > 480 Min. In splash

contact: Glove material: nitrile rubber Layer thickness: 0.4 mm Breakthrough time: > 480 Min. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

**Body protection**

Light protective clothing.

### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Suitable respiratory protection apparatus**

Filtering device with filter or ventilator filtering device of type: A

### General health and safety measures

Keep away from food, drink and animal feeding stuff

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** clear, colourless to yellow

**Odour :** characteristic

### Safety relevant basis data

| | | | | | |
|---|---|---|---|---|---|
| **Melting point/melting range :** | | | not relevant | | |
| **Boiling temperature/boiling range :** | ( 1013 hPa ) | | 100 | °C | |
| **Decomposition temperature :** | | > | 230 | °C | |
| **Flash point :** | | | not applicable | | |
| **Ignition temperature :** | | | not applicable | | |
| **Lower explosion limit :** | | | not applicable | | |
| **Upper explosion limit :** | | | not applicable | | |
| **Vapour pressure :** | ( 25 °C ) | ca. | 32 | hPa | |
| **Density :** | ( 20 °C ) | | 1.4 | g/cm$^3$ | |
| **Solvent separation test :** | ( 20 °C ) | | No data available | | |
| **Water solubility :** | ( 20 °C ) | | 100 | g/l | |
| **pH value (solvent = drinking water) :** | ( 20 °C / 10 g/l ) | ca. | 12 | | |
| **log P O/W :** | | | not determined | | |
| **Flow time :** | ( 20 °C ) | | No data available | | DIN-cup 4 mm |
| **Viscosity :** | ( 20 °C ) | | No data available | | |
| **Evaporation rate :** | | | not determined | | |
| **Vapourisation rate :** | | | not determined | | |
| **Flammable solids :** | Not applicable. | | | | |
| **Flammable gases :** | Not applicable. | | | | |
| **Oxidising liquids :** | Not relevant. | | | | |
| **Explosive properties :** | Not applicable. | | | | |

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage and handling conditions(See section 7).

### 10.2 Chemical stability

Thermal decomposition above 230 °C.

### 10.3 Possibility of hazardous reactions

Exothermic reaction with: Acids, oxidizing agents,

### 10.4 Conditions to avoid
None, if handled according to order.

### 10.5 Incompatible materials
Acids, oxidizing agents,

### 10.6 Hazardous decomposition products
Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects
#### Acute effects
**Acute oral toxicity**

| | |
|---|---|
| Parameter : | LD50 |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |

## SECTION 12: Ecological information

### 12.1 Toxicity
#### Effects in sewage plants

| | |
|---|---|
| Parameter : | Chemical oxygen demand (COD) |
| Effective dose : | 125 g/kg |

### 12.2 Persistence and degradability
#### Biodegradation

| | |
|---|---|
| Analytical method : | Biodegradability according to OECD |
| Degradation rate : | > 80 % |

#### Regulation on Detergents (EC) No 648/2004
The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request.

### 12.3 Bioaccumulative potential
No information available.

### 12.4 Mobility in soil
No information available.

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

### 12.6 Other adverse effects
No information available.

### 12.7 Additional ecotoxicological information
None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods
#### Product/Packaging disposal
Recycle according to official regulations.

**Waste codes/waste designations according to EWC/AVV**

**Waste code product**

Waste code (91/689/EEC) : 07 06 01*

## SECTION 14: Transport information

### 14.1 UN number

UN 3266

### 14.2 UN proper shipping name

**Land transport (ADR/RID)**

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. ( TRIPOTASSIUM ORTHOPHOSPHATE )

**Sea transport (IMDG)**

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. ( TRIPOTASSIUM ORTHOPHOSPHATE )

**Air transport (ICAO-TI / IATA-DGR)**

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. ( TRIPOTASSIUM ORTHOPHOSPHATE )

### 14.3 Transport hazard class(es)

**Land transport (ADR/RID)**

| | |
|---|---|
| **Class(es) :** | 8 |
| **Classification code :** | C5 |
| **Hazard identification number (Kemler No.) :** | 80 |
| **Tunnel restriction code :** | E |
| **Special provisions :** | LQ 7 · LQ 5 l |
| **Hazard label(s) :** | 8 |

**Sea transport (IMDG)**

| | |
|---|---|
| **Class(es) :** | 8 |
| **EmS-No. :** | F-A / S-B |
| **Special provisions :** | Segregation Group 18 - Alkalis |
| **Hazard label(s) :** | 8 |

**Air transport (ICAO-TI / IATA-DGR)**

| | |
|---|---|
| **Class(es) :** | 8 |
| **Hazard label(s) :** | 8 |

### 14.4 Packing group

III

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** No

**Sea transport (IMDG) :** No

**Air transport (ICAO-TI / IATA-DGR) :** No

### 14.6 Special precautions for user

May be corrosive to metals (H290)

## SECTION 15: Regulatory information

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

**National regulations**

**Water hazard class (WGK)**

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

### 15.2 Chemical Safety Assessment

No information available.

## SECTION 16: Other information

The user is responsible for the observance of all required statutory provisions.

### 16.1 Indication of changes

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

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

None

### 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.