

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Hellmanex III
Revision : 29.09.2015
Print date : 26.11.2015

Version : 9.0.2

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

1.1 Product identifier

Hellmanex III

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.

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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 : $\geq 15 - < 30$ %

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

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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

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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
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

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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.

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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 I
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.

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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.