



Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, California 95021 USA

800 227 9770 telephone
www.agilent.com
www.agilent.com/chem/sds

Manufacturer Safety Data Sheet

The attached Safety Data Sheet is being provided for the Agilent Product indicated below:

Agilent Part Number: **5190-0530**
Agilent Product Name: **Cell Passivating Solution for UV-VIS**
Manufacturer Product Name: **Hellmanex III**

Safety Data Sheet

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

Trade name : Hellmanex III
Revision : 19.09.2017
Print date : 16.11.2017

Version : 12.0.0

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

Reserved for industrial and professional use.

Relevant identified uses

Detergent

1.3 Details of the supplier of the safety data sheet

Hellma GmbH & Co. KG

Street : Klosterrunsstrasse 5

Postal code/city : 79379 Müllheim

Country : Deutschland

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 2 ; 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.

Safety Data Sheet

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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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

TRIPOTASSIUM ORTHOPHOSPHATE ; REACH registration No. : 01-2119971078-30 ; 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 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.

Self-protection of the first aider

No special measures are necessary.

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.

Safety Data Sheet

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Trade name : Hellmanex III
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Unsuitable extinguishing media

High power 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. See section 8 of the safety data sheet (general health and safety measures)

Protective measures

Measures to prevent fire

No anti-explosion measures necessary.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

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,

Storage temperature : Optimal storage temperature 20 °C . For details, see product label.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Safety Data Sheet

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Trade name : Hellmanex III
Revision : 19.09.2017
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Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and clear transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; Ensure suitable personal protective equipment is available; Clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions.

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

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	
Initial boiling point and 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)	approx.	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)	approx.	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.

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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 :	ATEmix calculated
Exposure route :	Oral
Effective dose :	> 2000 mg/kg

Irritant and corrosive effects

Causes serious eye irritation.

Sensitisation

No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No information available.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

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

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Parameter : Biodegradability according to OECD
Effective dose : > 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

In accordance with local official regulations.

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 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

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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

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

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] · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

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

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.