according to Regulation (EC) No 1907/2006

1077-99 Potassium Iodide Powder Pillow

Revision date: 28.11.2017

Product code: 107799

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

1.1. Product identifier

1077-99 Potassium Iodide Powder Pillow

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

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

ergency
1

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Hazard Statements: Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling Potassium iodide

Signal word:

Pictograms:



Warning

Hazard statements

H315 H319 Causes skin irritation. Causes serious eye irritation.



if

according to Regulation (EC) No 1907/2006

1077-99 Potassium Iodide Powder Pillow

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Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove conta	ct lenses, i
present and easy to do. Continue rinsing.	
P337+P313 If eye irritation persists: Get medical advice/attention.	
P302+P352 IF ON SKIN: Wash with plenty of water.	
P332+P313 If skin irritation occurs: Get medical advice/attention.	
P312 Call a POISON CENTER/doctor if you feel unwell.	

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulati	on (EC) No. 1272/2008 [CLP]		
7681-11-0	Potassium iodide			> 99 %
	231-659-4			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

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

irritant effects

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

SECTION 5: Firefighting measures

5.1. Extinguishing media



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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO2), Alcohol-resistant foam, Dry powder

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Fire may liberate hazardous vapours.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes. Do not breathe vapours/dust.

Advice on protection against fire and explosion

None known. See also section 5

Further information on handling

Observe label precautions.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



according to Regulation (EC) No 1907/2006

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Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Protective and hygiene measures

Wash hands before breaks and after work.

General industrial hygiene practice.

Ensure that eye flushing systems and safety showers are located close to the working place.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In case of full contact: Glove material : Nitrile rubber Layer thickness: > 0,11 mm Break through time: 480 min

In case of contact through splashing: Glove material : Nitrile rubber Layer thickness: > 0,11mm Break through time: > 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

Skin protection

Avoid contact with skin, eyes and clothing.

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	solid, powder colourless	
Odour:	odourless	
pH-Value (at 20 °C):		6,7 (5 % solution)
Changes in the physical state		
Melting point:		680 °C
Initial boiling point and boiling range:		not applicable
Sublimation point:		no data available
Softening point:		not applicable
Pour point:		no data available
:		no data available
Flash point:		not applicable



according to Regulation (EC) No 1907/2006

1077-99 Potassium Iodide Powder Pillow

Revision date: 28.11.2017	Product code: 107799	Page 5 of 8
Flammability Solid: Gas:	not applicable not applicable	
Explosive properties not applicable		
Lower explosion limits: Upper explosion limits:	no data available no data available	
Ignition temperature:	no data available	
Auto-ignition temperature Solid: Gas:	no data available no data available	
Decomposition temperature:	no data available	
Oxidizing properties no data available		
Vapour pressure:	no data available	
Vapour pressure:	no data available	
Density (at 20 °C):	3,07 g/cm³	
Bulk density:	no data available	
Water solubility:	soluble	
Solubility in other solvents no data available		
Partition coefficient:	not applicable	
Viscosity / dynamic:	not applicable	
Viscosity / kinematic:	not applicable	
Flow time:	not applicable	
Vapour density:	not applicable	
Evaporation rate:	not applicable	
Solvent separation test:	not applicable	
Solvent content:	not applicable	
9.2. Other information		
Solid content:	no data available	

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Sensitivity to light

10.3. Possibility of hazardous reactions

Reacts with the following substances: Alkali metals, Ammonia, Oxidizing agents, Fluorine

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Exposure to moisture.

10.5. Incompatible materials

Powdered metal salts



according to Regulation (EC) No 1907/2006

1077-99 Potassium Iodide Powder Pillow

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10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No data is available on the product itself.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7681-11-0	Potassium iodide					
	oral	LD50 mg/kg	2779	rat		

Irritation and corrosivity

May cause eye and skin irritation.

Sensitising effects

No known effect.

Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification

Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7681-11-0	Potassium iodide						
	Acute fish toxicity	LC50	896 mg/l		Oncorhynchus mykiss (rainbow trout)	EPA	

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

No data is available on the product itself.

12.4. Mobility in soil

No data is available on the product itself.

12.5. Results of PBT and vPvB assessment

No data is available on the product itself.



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12.6. Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and 160506 discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Contaminated packaging

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14: Transport information

Land transport (ADR/RID)

Lanu transport (ADR/RID)	
<u>14.1. UN number:</u>	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Other applicable information (land transp Not subject to transport regulations.	ort)
Inland waterways transport (ADN)	
Other applicable information (inland wate Not tested	erways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
EmS:	-
Other applicable information (marine tran Not subject to transport regulations.	isport)
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	-

N

<u>14.1. UN number:</u>
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
EmS:
Other applicable information (marine
Not subject to transport regulations
Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	-
14.4. Packing group:	



according to Regulation (EC) No 1907/2006

1077-99 Potassium Iodide Powder Pillow

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Other applicable information (air transport)

Not subject to transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

Other applicable information

-

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Revision: 28.11.2017 Safety datasheet sections which have been updated: 2, 11 Revision: 23.04.2015 Safety datasheet sections which have been updated: 2, 4 Revision: 24.03.2014 Safety datasheet sections which have been updated: 2-13, 15, 16

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to Regulation (EC) No 1907/2006

2267301 Sodium Thiosulfate Standard Solution, 0.113 N

Revision date: 07.03.2018

Product code: 2267301

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

1.1. Product identifier

2267301 Sodium Thiosulfate Standard Solution, 0.113 N

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

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

Company name:	HACH LANGE GmbH
Street:	Willstätterstr. 11
Place:	D-40549 Düsseldorf
Telephone:	+49 (0)211 5288-383
e-mail:	SDS@hach.com
Internet:	www.de.hach.com
Responsible Department:	HACH LANGE Ltd.
	5, Pacific Way
	Salford Manchester M50 1DL - United Kingdom
	Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324
	e-Mail: info-uk@hach.com
	HACH LANGE Ltd.
	Unit 1, Chestnut Road Western Industrial Estate
	IRL-Dublin 12
	Tel. +353 (0)1 4602522
	e-Mail: info-ie@hach.com
1.4. Emergency telephone	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency
number:	service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulat	ion (EC) No. 1272/2008 [CLP]			
7732-18-5	Water			55,0 - 65,0 %	
	231-791-2				
57-55-6	1,2-Propanediol			25,0 - 35,0 %	
	200-338-0				
10102-17-7	Sodium thiosulfate			1,0 - 10,0 %	
	231-867-5				

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air. If symptoms persist, call a physician.

After contact with skin

Wash off immediately with plenty of water. If skin irritation persists, call a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Call a physician immediately.

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

No known effect.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. General hygiene considerations

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eves. Wash off with plenty of water. General hygiene considerations

Advice on protection against fire and explosion

See also section 5

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container closed.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

Additional advice on limit values

None known.

8.2. Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands before breaks and after work.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Glove material (Break through time > 480 Min.): Natural Rubber (0,35 mm) Nitrile rubber (0,5 mm)



according to Regulation (EC) No 1907/2006

2267301 Sodium Thiosulfate Standard Solution, 0.113 N

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butyl-rubber (0,5 mm) Fluorinated rubber (0,4 mm)

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Ensure adequate ventilation.

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties	
Physical state:	liquid	
Colour:	colourless, clear	
pH-Value (at 20 °C):		7,9
Changes in the physical state		
Melting point:		no data available
Initial boiling point and boiling range:		100 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		not applicable
:		no data available
Flash point:		> 100 °C
Sustaining combustion:		No data available
Flammability		
Solid:		not applicable
Gas:		not applicable
Explosive properties not applicable		
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Ignition temperature:		no data available
Auto-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		no data available
Oxidizing properties not applicable		
Vapour pressure:		no data available
Vapour pressure:		no data available
Density (at 20 °C):		0,996 g/cm ³
Bulk density:		not applicable
Water solubility: (at 20 °C)		soluble
Solubility in other solvents no data available		
Partition coefficient:		no data available
Viscosity / dynamic:		no data available



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Viscosity / kinematic:	no data available			
Flow time:	no data available			
Vapour density:	no data available			
Evaporation rate:	no data available			
Solvent separation test:	no data available			
Solvent content:	no data available			
9.2. Other information				
Solid content:	not applicable			
no data available				

SECTION 10: Stability and reactivity

10.1. Reactivity

See also section 10.3

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No data is available on the product itself.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
57-55-6	1,2-Propanediol						
	oral	LD50 mg/kg	20000	rat	Toxicology and Appli		
	dermal	LD50 mg/kg	20800	rabbit	Raw Material Data Ha		
10102-17-7	Sodium thiosulfate						
	oral	LD50 mg/kg	>5000	rat	RTECS		

Irritation and corrosivity

No known effect.

Sensitising effects

Contains no substance or substances classified as sensitising.



according to Regulation (EC) No 1907/2006

2267301 Sodium Thiosulfate Standard Solution, 0.113 N

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Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification

Specific effects in experiment on an animal

No data is available on the product itself.

Additional information on tests

no data available

Practical experience

Observations relevant to classification

no data available

Other observations no data available

Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
57-55-6	1,2-Propanediol							
	Acute fish toxicity	LC50 mg/l	51600	96 h	Oncorhynchus mykiss (rainbow trout)	OECD 203		
	Acute crustacea toxicity	EC50 mg/l	34400	48 h	Daphnia magna (Water flea)	Information taken from reference works and the literature.		
10102-17-7	Sodium thiosulfate							
	Acute fish toxicity	LC50 mg/l	>10000	96 h				
	Acute crustacea toxicity	EC50 mg/l	1223	48 h				

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
57-55-6	1,2-Propanediol	-0,92

12.4. Mobility in soil

no data available



according to Regulation (EC) No 1907/2006

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12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

No known effect.

no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not subject to transport regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport) Not tested

Marine transport (IMDG)

Other applicable information (marine transport) Not subject to transport regulations.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

Not subject to transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

Other applicable information no data available

sport)



2267301 Sodium Thiosulfate Standard Solution, 0.113 N

Revision date: 07.03.2018

Product code: 2267301

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SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Revision: 07.03.2018 Safety datasheet sections which have been updated: 4, 5, 8

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to Regulation (EC) No 1907/2006

349-32 Starch Indicator Solution

Revision date: 19.10.2017

Product code: 34932

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

1.1. Product identifier

349-32 Starch Indicator Solution

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

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

Company name:	HACH LANGE GmbH
Street:	Willstätterstr. 11
Place:	D-40549 Düsseldorf
Telephone:	+49 (0)211 5288-383
e-mail:	SDS@hach.com
Internet:	www.de.hach.com
Responsible Department:	HACH LANGE Ltd.
	5, Pacific Way
	Salford Manchester M50 1DL - United Kingdom
	Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324
	e-Mail: info-uk@hach.com
	HACH LANGE Ltd.
	Unit 1, Chestnut Road Western Industrial Estate
	IRL-Dublin 12
	Tel. +353 (0)1 4602522
	e-Mail: info-ie@hach.com
1.4. Emergency telephone	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency
number:	service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

no data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regula	tion (EC) No. 1272/2008 [CLP]			
7732-18-5	Water			>98 %	
	231-791-2				
9005-84-9	Starch				
	232-686-4				
69-72-7	Salicylic acid			<1 %	
	200-712-3				
	Acute Tox. 4, Eye Irrit. 2; H302 H319				

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air.

After contact with skin

Wash off immediately with plenty of water.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water.

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

No known effect.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures



according to Regulation (EC) No 1907/2006

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6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas.

Advice on protection against fire and explosion

See also section 5

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a dry, cool place.

Hints on joint storage

None known.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

None known.

8.2. Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands before breaks and after work

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter



according to Regulation (EC) No 1907/2006

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SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state: liquid Colour: colourless Odour: odourless pH-Value (at 20 °C): Changes in the physical state Melting point: not applicable 100 °C Initial boiling point and boiling range: Sublimation point: not applicable Softening point: not applicable Pour point: not applicable no data available Flash point: not applicable Sustaining combustion: No data available Flammability Solid: not applicable Gas: not applicable **Explosive properties** not applicable Lower explosion limits: not applicable Upper explosion limits: not applicable Ignition temperature: no data available Auto-ignition temperature Solid: not applicable Gas: not applicable Decomposition temperature: not applicable **Oxidizing properties** not applicable Vapour pressure: no data available Vapour pressure: no data available Density (at 20 °C): 0,986 g/cm³ not applicable Bulk density: Water solubility: soluble Solubility in other solvents soluble Partition coefficient: no data available no data available Viscosity / dynamic: Viscosity / kinematic: no data available Flow time: no data available Vapour density: no data available Evaporation rate: no data available Solvent separation test: no data available

Solvent content:

no data available



according to Regulation (EC) No 1907/2006

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met. No data is available on the product itself.

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
69-72-7	Salicylic acid					
	oral	ATE 500 mg/kg				

Irritation and corrosivity

Based on available data, the classification criteria are not met. No known effect.

Sensitising effects

Based on available data, the classification criteria are not met. No known effect.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. Contains no ingredient listed as a carcinogen

STOT-single exposure

Based on available data, the classification criteria are not met.

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



according to Regulation (EC) No 1907/2006

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Aspiration hazard

Based on available data, the classification criteria are not met. No aspiration toxicity classification

Specific effects in experiment on an animal

No data is available on the product itself.

Additional information on tests

None known.

Practical experience

Observations relevant to classification

no data available

Other observations

None known.

Further information

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment no data available

12.6. Other adverse effects

No known effect.

Further information

No known effect.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste



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Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not subject to transport regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport) Not tested

Marine transport (IMDG)

Other applicable information (marine transport)

Not subject to transport regulations.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport) Not subject to transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

Other applicable information

no data available

SECTION 15: Regulatory information

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

National regulatory information

1 - slightly water contaminating

Water contaminating class (D): 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Revision: 19.10.2017 Safety datasheet sections which have been updated: 11 Revision: 30.09.2017 Safety datasheet sections which have been updated: 2 Revision: 26.01.2015 Safety datasheet sections which have been updated: 2

Relevant H and EUH statements (number and full text)

Harmful if swallowed.

Causes serious eye irritation.

Further Information

H302

H319

The information is based on present level of our knowledge. It does not, however, give assurances of product



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properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



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

1.1. Product identifier

987-99 Dissolved Oxygen 3 Powder Pillows

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

Use of the substance/mixture

Water analysis

1.3. Details of the supplier of the safety data sheet

Company name:	HACH LANGE GmbH
Street:	Willstätterstr. 11
Place:	D-40549 Düsseldorf
Telephone:	+49 (0)211 5288-383
e-mail:	SDS@hach.com
Internet:	www.de.hach.com
Responsible Department:	HACH LANGE Ltd.
	5, Pacific Way
	Salford Manchester M50 1DL - United Kingdom
	Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324
	e-Mail: info-uk@hach.com
	HACH LANGE Ltd.
	Unit 1, Chestnut Road Western Industrial Estate
	IRL-Dublin 12
	Tel. +353 (0)1 4602522
	e-Mail: info-ie@hach.com
1.4. Emergency telephone	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency
<u>number:</u>	service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Substance or mixture corrosive to metals: Met. Corr. 1 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

sulphamidic acid; sulphamic acid; sulfamic acid

Signal word:

Warning



according to Regulation (EC) No 1907/2006

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Pictograms:



Hazard statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P390	Absorb spillage to prevent material damage.

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3. Other hazards

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
5329-14-6	329-14-6 sulfamic acid, sulphamic acid, sulphamidic acid			> 99 %
	226-218-8	016-026-00-0		
	Acute Tox. 4, Skin Irrit.	cute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H302 H315 H319 H412		

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air.

If symptoms persist, call a physician.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Call a physician immed

After contact with eyes In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



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After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

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

irritant effects, Cough, Shortness of breath

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours. The following may develop in event of fire: sulfur oxides.

5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

In the event of fire, wear self-contained breathing apparatus.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Avoid dust formation. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes. Do not breathe vapours/dust.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

7.3. Specific end use(s)

Reagent for analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



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Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min Consult your supplier if the material is to be used for special applications such as in the food industry or for

Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Skin protection

Avoid contact with skin, eyes and clothing.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Breathing apparatus only if aerosol or dust is formed.

Recommended Filter type: ABEK-filter

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	solid white	
Odour:	odourless	
pH-Value (at 20 °C):		1,18
Changes in the physical state		
Melting point:		205 °C
Initial boiling point and boiling range:		not applicable
Sublimation point:		no data available
Softening point:		no data available
Pour point:		not applicable
:		no data available
Flash point:		no data available
Flammability		
Solid:		no data available
Gas:		no data available
Explosive properties not applicable		
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Ignition temperature:		not applicable
Auto-ignition temperature Solid: Gas:		no data available no data available



according to Regulation (EC) No 1907/2006

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Decomposition temperature:	no data available		
Oxidizing properties not applicable			
Vapour pressure: (at 20 °C)	0,0078 hPa		
Vapour pressure:	no data available		
Density (at 20 °C):	2,13 g/cm³		
Bulk density:	no data available		
Water solubility: (at 20 °C)	213 g/L		
Solubility in other solvents Acids			
Partition coefficient:	no data available		
Viscosity / dynamic:	no data available		
Viscosity / kinematic:	no data available		
Flow time:	no data available		
Vapour density:	no data available		
Evaporation rate:	no data available		
Solvent separation test:	no data available		
Solvent content:	no data available		
9.2. Other information			
Solid content:	no data available		
May be corrosive to metals. Mild steel: 20,68 mm/a Aluminium : 5,38 mm/a			

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Hazard: Nitric acid

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition products

Ammonia, Sulphur oxides

Further information

Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects



according to Regulation (EC) No 1907/2006

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Acute toxicity

Harmful if swallowed.

(CAS No	Chemical name				
		Exposure route	Dose	Species	Source	Method
Ę	5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
			LD50 1450 mg/kg	Rat		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

Pimephales promelas (fathead minnow) : LC 50: 70,3 mg/l96 h

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d] Species	Source	Method
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
	Acute fish toxicity	LC50 70,3 mg/l	96 h Pimephales promelas		

12.2. Persistence and degradability

No data is available on the product itself.

12.3. Bioaccumulative potential

No data is available on the product itself.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

No known effect.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



according to Regulation (EC) No 1907/2006

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Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

Contaminated packaging

In accordance with local and national regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN2967
14.2. UN proper shipping name:	SULPHAMIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	B B
Classification code:	C2
Limited quantity:	5 kg
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E
Other applicable information (land transp Excepted Quantities: E1	oort)
Inland waterways transport (ADN)	
Other applicable information (inland wate Not tested	erways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN2967
14.2. UN proper shipping name:	SULPHAMIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	-
Limited quantity:	5 kg
EmS:	F-A, S-B



De filgiti	<u> </u>		
987-	-99 Dissolved Oxyg	gen 3 Powder Pillows	
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Other applicable information (marine tra Excepted Quantities: E1	ansport)		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	UN2967		
14.2. UN proper shipping name:	SULPHAMIC ACID		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	III		
Hazard label:	8		
	8		
Special Provisions:	A803		
Limited quantity Passenger:	5 kg		
IATA-packing instructions - Passenger:		860 25 km	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:		25 kg 864	
IATA-max. quantity - Cargo:		100 kg	
Other applicable information (air transp Excepted Quantities: E1 Passenger-LQ: Y845	ort)		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
14.6. Special precautions for user Use personal protective equipment.			
14.7. Transport in bulk according to Annex Not relevant	II of Marpol and the IE	<u>3C Code</u>	
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	ulations/legislation en	ecific for the substance or mixture	
	and on she gislation spe		
National regulatory information	Observe (1.1.1)		_
Employment restrictions:	work protection guid	to employment for juvenils according to the 'juvenil leline' (94/33/EC). Observe employment restrictions Protection Directive (92/85/EEC) for expectant or	
Water contaminating class (D): 1 - slightly water contaminating			
15.2. Chemical safety assessment			
Chemical safety assessments for sub	stances in this mixture	were not carried out.	

SECTION 16: Other information

Changes

Revision: 03.01.2019 Safety datasheet sections which have been updated: 11, 15,16 Revision: 2.10.2015 Safety datasheet sections which have been updated: 2, 3, 11 Revision: 15.10.2015 Safety datasheet sections which have been updated: 2 Revision: 27.04.2015 Safety datasheet sections which have been updated: 2



according to Regulation (EC) No 1907/2006

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Revision: 16.05.2013

Revision: 17.06.2014 (Safety datasheet sections which have been updated: 2, 4, 8)

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

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

	,
H290	May be corrosive to metals.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)