

according to Regulation (EC) No 1907/2006

26588-25 HgEx Reagent A Stannous Sulfate Solution

Revision date: 05.09.2017

Product code: 2658825

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

1.1. Product identifier

26588-25 HgEx Reagent A Stannous Sulfate 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: Street:	HACH LANGE GmbH 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
. Emergency telephone_ nber:	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

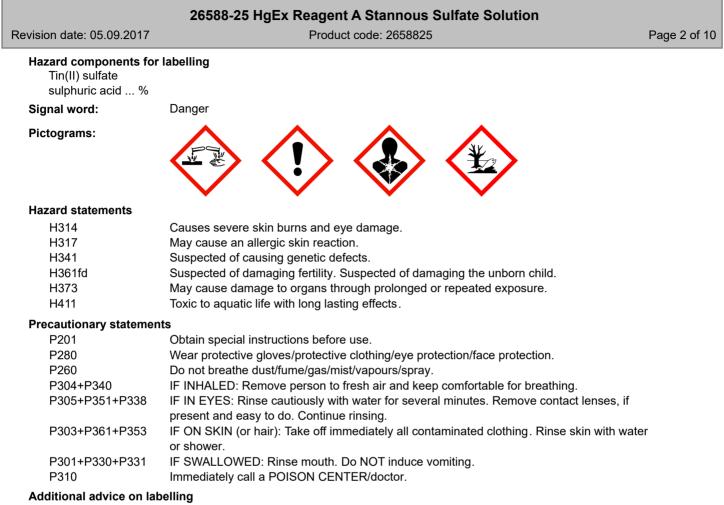
Hazard categories: Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1 Germ cell mutagenicity: Muta. 2 Reproductive toxicity: Repr. 2 Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008



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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				
	EC No	Index No	REACH No		
	GHS Classification				
7732-18-5	Water			85-95 %	
	231-791-2				
7488-55-3	Tin(II) sulfate		5-15 %		
	231-302-2				
	Muta. 2, Repr. 2, Acute Tox. 4, Skin Aquatic Chronic 1; H341 H361 H33				
7664-93-9	sulphuric acid %		1-5 %		
	231-639-5	016-020-00-8			
	Skin Corr. 1A; H314				

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



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

Consult a physician. 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. Take off all contaminated clothing immediately. 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.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Call a physician immediately.

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

Acute dermal irritation/corrosion. Serious eye damage/eye irritation. Respiratory or skin sensitisation. Germ cell mutagenicity & Reproductive toxicity

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.

Unsuitable extinguishing media

None known.

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

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Only qualified personnel equipped with suitable protective equipment may intervene.

Mark the contaminated area with signs and prevent access to unauthorized personnel.



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6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

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. General industrial hygiene practice.

Advice on protection against fire and explosion

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 in a dry, cool place.

Hints on joint storage

None known.

Further information on storage conditions

None known.

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
7664-93-9	Sulphuric acid (mist)	-	0.05		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.



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Eye/face protection

Chemical resistant goggles must be worn.

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

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

Respiratory protection

Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

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:	liquid	
Colour:	dark green	
Odour:	stinging	
pH-Value (at 20 °C):		< 1
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:		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:		no data available
Oxidizing properties not applicable		
Vapour pressure:		no data available



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Vapour pressure:	no data available					
Density (at 20 °C):	1,10 g/cm ³					
Bulk density:	not applicable					
Water solubility:	soluble					
Solubility in other solvents no data available						
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:	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. To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Sulphur oxides Tin oxide fumes.

Further information

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No toxicology information is available.

Acute toxicity

No data is available on the product itself.



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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
7488-55-3	Tin(II) sulfate	Tin(II) sulfate						
	oral	LD50 mg/kg	2210	rat				
	inhalation vapour	ATE	11 mg/l					
	inhalation (4 h) aerosol	LC50	2 ma/l	rat				

Irritation and corrosivity

Causes skin and eye burns.

Sensitising effects

May cause allergic skin reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

H341 - Suspected of causing genetic defects.

H361 - Suspected of damaging fertility or the unborn child.

STOT-single exposure

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

STOT-repeated exposure

H373 - May cause damage to organs through prolonged or 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

None known.

Practical experience

Observations relevant to classification

None known.

Other observations None known.

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

Do not flush into surface water or sanitary sewer system.

CAS No Chemical name							
	Aquatic toxicity Dose		[h] [d]	Species	Source	Method	
7488-55-3	Tin(II) sulfate		-	-		-	
	Acute algae toxicity	ErC50 mg/l	0,21		Skeletonema costatum		
	Acute crustacea toxicity	EC50	22 mg/l		Daphnia magna (Water flea)		
	Crustacea toxicity	NOEC mg/l	0,18		Daphnia magna (Water flea)		

12.2. Persistence and degradability

No data is available on the product itself.



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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.

Further information

no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

In accordance with local and national regulations.

List of Wastes Code - 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

List of Wastes Code - 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

List of Wastes Code - 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)

Other applicable information (land transport)

Not subject to transport regulations.

: 375 (ADR)

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.

: 2.10.2.7 (IMDG)

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

Not subject to transport regulations.

: 197

14.5. Environmental hazards



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ENVIRONMENTALLY HA	AZARDOUS: no						
14.6. Special precautions for user							
no data available							
	ording to Annex II of Marpol and the IBC Code						
not applicable							
Other applicable information	n						
no data available							
SECTION 15: Regulatory	information						
15.1. Safety, health and env	rironmental regulations/legislation specific for the substance or mixture						
National regulatory info	rmation						
Water hazard class (D):	1 - slightly hazardous to water						
15.2. Chemical safety asses	ssment						
Chemical safety asse	essments for substances in this mixture were not carried out.						
SECTION 16: Other infor	mation						
Revision: 05.09.2017 Safety datasheet sec Revision: 03.11.2015 Safety datasheet sec Revision: 29.11.2013 Safety datasheet sec	Changes Revision: 05.09.2017 Safety datasheet sections which have been updated: 2, 10, 11 Revision: 03.11.2015 Safety datasheet sections which have been updated: 2, 4, 6-9, 11, 13, 16 Revision: 29.11.2013 Safety datasheet sections which have been updated: 2 Revision: 24.01.2008						
Classification for mixtures	and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]						
Classification	Classification procedure						
Skin Corr. 1A; H314	On basis of test data						
Eye Dam. 1; H318	On basis of test data						
Skin Sens. 1; H317	Calculation method						
Muta. 2; H341	Calculation method						
Repr. 2; H361fd	Calculation method						
STOT RE 2; H373							
Aquatic Chronic 2; H411	Calculation method						
Relevant H and FUH sta	tements (number and full text)	•					
H314	Causes severe skin burns and eye damage.						
H315	Causes skin irritation.						
H317	May cause an allergic skin reaction.						
H318	ses serious eye damage.						
H319	Causes serious eye irritation.						
H332	Harmful if inhaled.						
H335	May cause respiratory irritation.						
H341	Suspected of causing genetic defects.						
H361	Suspected of damaging fertility or the unborn child.						
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.						
H373	May cause damage to organs through prolonged or repeated exposure.						
H410	Very toxic to aquatic life with long lasting effects.						
H411	Toxic to aquatic life with long lasting effects.						



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Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance 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.)