

## BioSchiff Reagent

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

#### 1.1. Product identifier

Trade name

BioSchiff Reagent

Product no.

1237, 1285

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

Relevant identified uses of the substance or mixture

Laboratory use

Uses advised against

No special

#### 1.3. Details of the supplier of the safety data sheet

Company and address

**Solveco AB**

Tallbacksgatan 10

S-195 72 Rosersberg

Sverige

T: +46 (0)8 732 72 75

F: +46 (0)8 732 72 76

<http://www.solveco.se>

Contact person

Habib Hourani

E-mail

[info@solveco.se](mailto:info@solveco.se)

Revision

03-12-2021

SDS Version

2.0

Date of previous version

2020-10-14 (1.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

#### 2.2. Label elements

▼ Hazard pictogram(s)

Not applicable

▼ Signal word

Not applicable

▼ Hazard statement(s)

Not applicable

Safety statement(s)

General

-

▼ Prevention

-  
 ▼ Response

-  
 Storage

-  
 Disposal

▼ Hazardous substances

No special

### 2.3. Other hazards

▼ Additional labelling

EUH210, Safety data sheet available on request.

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## SECTION 3: Composition/information on ingredients

### ▼ 3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium metabisulphite	CAS No.: 7681-57-4 EC No.: 231-673-0  REACH: 01-2119531326-45-XXXX Index No.: 016-063-00-2	<3%	Acute Tox. 4, H302 Eye Dam. 1, H318 EUH031	
hydrogen chloride	CAS No.: 7647-01-0 EC No.: 231-595-7 REACH: Index No.: 017-002-00-2	<3%	Met. Corr. 1, H290 Eye Dam. 1, H318 Acute Tox. 3, H331 Skin Corr. 1A, H314 STOT SE 3, H335	[1]

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

[1] European occupational exposure limit

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

#### Eye contact

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

### Burns

Not applicable

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

No special

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

No special

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

Fire fighters should wear appropriate personal protective equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage temperature

Rumstemperatur

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### ▼ 8.1. Control parameters

— sodium metabisulphite

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 5

— hydrogen chloride

Long term exposure limit (8 hours) (ppm): 1

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2

Short term exposure limit (15 minutes) (ppm): 5

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 8

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### DNEL

No data available

### PNEC

No data available

### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements

### Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

#### ▼ Respiratory Equipment



Type	Class	Colour	Standards
N/A			

#### Skin protection


Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-



#### ▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	
Butyl	-	-	EN374-2, EN374-3, EN388, EN421	

▼ Eye protection

Type	Standards	
Wear safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form

Liquid

Colour

Colourless

Odour

Sharp/pungent

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

<2

Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to nature of the product.

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)

Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

**Explosive properties**

Testing not relevant or not possible due to nature of the product.

**Oxidizing properties**

Testing not relevant or not possible due to nature of the product.

**Solubility**

**Solubility in water**

Testing not relevant or not possible due to nature of the product.

**n-octanol/water coefficient**

Testing not relevant or not possible due to nature of the product.

**Solubility in fat (g/L)**

Testing not relevant or not possible due to nature of the product.

**9.2. Other information**

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions**

No special

**10.4. Conditions to avoid**

No special

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Product/substance	sodium metabisulphite
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kgbw
Other information	

Product/substance	sodium metabisulphite
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1131 mg/kgbw
Other information	

Product/substance	hydrogen chloride
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (1h)

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Result	4726 mg/L
Other information	

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Product/substance	hydrogen chloride
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	900 mg/kgbw
Other information	

#### Skin corrosion/irritation

Product/substance	hydrogen chloride
Test method	OECD guideline no. 431
Species	Reconstructed Human Epidermis (RhE)
Duration	No data available.
Result	Adverse effect observed (Corrosive)
Other information	

#### Serious eye damage/irritation

Product/substance	sodium metabisulphite
Test method	OECD:s riktlinjer för test 405
Species	Rabbit
Duration	No data available.
Result	Adverse effect observed (Highly irritating)
Other information	

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Product/substance	hydrogen chloride
Test method	OECD's guidelines for test 437
Species	Cattle
Duration	No data available.
Result	Adverse effect observed (Corrosive)
Other information	

#### Respiratory sensitisation

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

#### Skin sensitisation

Product/substance	hydrogen chloride
Test method	OECD 406
Species	Guinea pig
Result	No adverse effect observed (not sensitising)
Other information	

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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.

**Long term effects**

No special

**Other information**

hydrogen chloride has been classified by IARC as a group 3 carcinogen.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Product/substance	sodium metabisulphite
Test method	
Species	Daphnia (Daphnia magna)
Compartment	
Duration	48 hours
Test	LC50
Result	89 mg/L
Other information	

Product/substance	sodium metabisulphite
Test method	
Species	Oncorhynchus mykiss (regnbågslox)
Compartment	
Duration	96 hours
Test	LC50
Result	150 mg/L
Other information	

Product/substance	sodium metabisulphite
Test method	
Species	Algae (Scenedesmus subspicatus)
Compartment	
Duration	72 hours
Test	IC50
Result	40 mg/L
Other information	

Product/substance	hydrogen chloride
Test method	
Species	Fish (Gambusia affinis)
Compartment	
Duration	96 hours
Test	LC50
Result	232 mg/L
Other information	

Product/substance	hydrogen chloride
Test method	
Species	Daphnia (Daphnia magna)
Compartment	
Duration	48 hours
Test	LC50



Result >56 mg/L  
Other information

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

Product/substance sodium metabisulphite  
Test method  
Potential No data available  
bioaccumulation  
LogPow -3,7  
BCF No data available  
Other information

Product/substance hydrogen chloride  
Test method  
Potential No  
bioaccumulation  
LogPow No data available  
BCF No data available  
Other information

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Other adverse effects

No special

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.  
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

20 01 14 Acids

#### Specific labelling

Not applicable

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

#### 14.1 - 14.4

Not dangerous goods according to ADR, IATA and IMDG.

#### ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
The product is not covered by international or EU regulations regarding the transport of dangerous goods (IMDG,				

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
	ICAO / IATA, ADR / RID).			

#### IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
	The product is not covered by international or EU regulations regarding the transport of dangerous goods (IMDG, ICAO / IATA, ADR / RID).			,

#### "MARINE POLLUTANT"

No

#### IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
	The product is not covered by international or EU regulations regarding the transport of dangerous goods (IMDG, ICAO / IATA, ADR / RID).		

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

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

No data available

### SECTION 15: Regulatory information

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

##### Restrictions for application

Restricted to professional users.

##### Demands for specific education

No specific requirements

##### SEVESO - Categories / dangerous substances

hydrogen chloride

##### Regulation on drug precursors

hydrogen chloride is included (Category 3)

##### Additional information

Not applicable

##### Sources

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Council Regulation (EC) No 273/2004 on drug precursors.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

EUH031, Contact with acids liberates toxic gas.  
H290, May be corrosive to metals.  
H302, Harmful if swallowed.  
H314, Causes severe skin burns and eye damage.  
H318, Causes serious eye damage.  
H331, Toxic if inhaled.  
H335, May cause respiratory irritation.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit.  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### Additional information

Not applicable

### The safety data sheet is validated by

habib.hourani

### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety

data sheet cannot be used as a product specification.  
Country-language: GB-en