

## Safety Data Sheet

according to UK REACH Regulation

### Sodium dodecyl sulfate solution 2%, Tween 0.1%

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 1 of 12

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

### 1.1. Product identifier

Sodium dodecyl sulfate solution 2%, Tween 0.1%

UFI: 142K-FAU0-H0KW-SNGT

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

#### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

#### Uses advised against

Any non-intended use.

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

Company name: MORPHISTO GmbH  
Street: Schumannstr. 142/144  
Place: D-63069 Offenbach  
Telephone: +49 (0) 69 / 400 3019-60      Telefax: +49 (0) 69 / 400 3019-64  
E-mail: info@morphisto.de  
Contact person: Morphisto GmbH  
E-mail: gefahrstoffmanagement@morphisto.de  
Internet: http://www.morphisto.de

### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

Signal word: Warning

Pictograms:



#### Hazard statements

H319 Causes serious eye irritation.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### Additional advice on labelling

Regulation (EC) No. 648/2004 [Detergents regulation].

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

**Safety Data Sheet**

according to UK REACH Regulation

**Sodium dodecyl sulfate solution 2%, Tween 0.1%**

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 2 of 12

**Pictograms:**

**2.3. Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**  
 aqueous solution

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
151-21-3	Sodium lauryl sulfate			1 - < 5 %
	205-788-1			
	Flam. Sol. 2, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H228 H332 H302 H315 H318 H335 H412			
9005-64-5	Tween 20			< 1 %
	500-018-3			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
151-21-3	205-788-1	Sodium lauryl sulfate	1 - < 5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1200 mg/kg		
9005-64-5	500-018-3	Tween 20	< 1 %
	inhalation: LC50 = >5,1 mg/l (dusts or mists)		

**Further Information**

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Take off immediately all contaminated clothing and wash it before reuse. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Safety Data Sheet**

according to UK REACH Regulation

**Sodium dodecyl sulfate solution 2%, Tween 0.1%**

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 3 of 12

**After inhalation**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs. In all cases of doubt, or when symptoms persist, seek medical advice.

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

After eye contact Risk of serious damage to eyes. Risk of blindness.

**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**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Sulphur oxides.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water. Do not inhale explosion and combustion gases.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**For non-emergency personnel**

Ventilate affected area. Consult an expert.

**For emergency responders**

In case of fire: Evacuate area.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

**6.3. Methods and material for containment and cleaning up****For containment**

Cover drains.

**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7

**Safety Data Sheet**

according to UK REACH Regulation

**Sodium dodecyl sulfate solution 2%, Tween 0.1%**

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 4 of 12

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**
**7.1. Precautions for safe handling**
**Advice on safe handling**

Wear suitable protective clothing. Ensure adequate ventilation.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities**
**Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a cool dry place.

**Hints on joint storage**

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate.

**Further information on storage conditions**

Recommended storage temperature: 15 - 25°C.

**7.3. Specific end use(s)**

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
151-21-3	Sodium lauryl sulfate			
Worker DNEL, long-term		inhalation	systemic	285 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	4060 mg/kg bw/day

## Safety Data Sheet

according to UK REACH Regulation

### Sodium dodecyl sulfate solution 2%, Tween 0.1%

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 5 of 12

#### PNEC values

CAS No	Substance	Value
Environmental compartment		
151-21-3	Sodium lauryl sulfate	
Freshwater		0,176 mg/l
Marine water		0,018 mg/l
Freshwater sediment		6,97 mg/kg
Marine sediment		0,697 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,35 mg/l
Soil		1,29 mg/kg
9005-64-5	Tween 20	
Freshwater		0,2 mg/l
Marine water		0,02 mg/l
Freshwater sediment		1,141 mg/kg
Marine sediment		1000 mg/kg

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Technical ventilation of workplace Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them.

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

##### Eye/face protection

Suitable eye protection: goggles.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Recommended material:

NBR (Nitrile rubber). 0,35mm.

CR (polychloroprene, chloroprene rubber). 0,5mm.

NR (natural rubber, Natural latex). 0,5mm.

Butyl rubber. 0,5mm.

FKM (fluororubber). 0,4mm.

PVC (polyvinyl chloride). 0,5mm.

Breakthrough time Breakthrough time (maximum wearing time): >480 min.

Check leak tightness/impermeability prior to use. Protect skin by using skin protective cream.

##### Skin protection

Use of protective clothing. lab coat.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal

## Safety Data Sheet

according to UK REACH Regulation

### Sodium dodecyl sulfate solution 2%, Tween 0.1%

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 6 of 12

conditions, breathing protection is not required.

Use suitable breathing apparatus. Suitable respiratory protective equipment: Combination filtering device or particulates filter device (DIN EN 143). P2 Identification color: white.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid	
Colour:	colourless, clear	
Odour:	soap	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		100 °C
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		9,1
Viscosity / kinematic:		not determined
Water solubility: (at 20 °C)		easily soluble
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		not determined
Vapour pressure: (at 20 °C)		23 hPa
Vapour pressure: (at 50 °C)		123 hPa
Density (at 20 °C):		1,00 g/cm <sup>3</sup>
Relative vapour density:		not determined
Particle characteristics:		not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive.

##### Sustaining combustion:

Not sustaining combustion

##### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

##### Evaporation rate:

not determined

##### Solid content:

not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

**Safety Data Sheet**

according to UK REACH Regulation

**Sodium dodecyl sulfate solution 2%, Tween 0.1%**

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 7 of 12

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Exothermic reaction with: Oxidizing agents.

**10.4. Conditions to avoid**

To avoid the risk of fire, do not allow this product to dry out.

**10.5. Incompatible materials**

Materials to avoid: Substances which in contact with water, emit flammable gases.

**10.6. Hazardous decomposition products**

 In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Sulphur oxides.

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) 60000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) 550,0 mg/l; ATE (inhalation dust/mist) 75,00 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
151-21-3	Sodium lauryl sulfate				
	oral	LD50 1200 mg/kg	Rat	ECHA	
	dermal	LD50 >2000 mg/kg	Rat	ECHA	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
9005-64-5	Tween 20				
	inhalation (4 h) dust/mist	LC50 >5,1 mg/l	Rat	ECHA	

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**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.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## Safety Data Sheet

according to UK REACH Regulation

### Sodium dodecyl sulfate solution 2%, Tween 0.1%

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 8 of 12

#### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
151-21-3	Sodium lauryl sulfate					
	Acute fish toxicity	LC50 29 mg/l	96 h	Zebrafish, Flagfish, and Rainbow Trout	ECHA	
	Acute algae toxicity	ErC50 >120 mg/l	72 h	Alge	ECHA	
	Acute bacteria toxicity	(EC50 135 mg/l)	3 h	activated sludge	ECHA	
9005-64-5	Tween 20					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Fisch	ECHA	
	Acute algae toxicity	ErC50 58,84 mg/l	72 h	Alge	ECHA	
	Algae toxicity	NOEC 100 mg/l	14 d	Toxicity to microorganisms	ECHA	

#### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
151-21-3	Sodium lauryl sulfate			
	Abiotic degradation	90%	28	
	Formation of carbon dioxide	98%	28	
9005-64-5	Tween 20			
	Oxygen consumption	62,5%	28	

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
151-21-3	Sodium lauryl sulfate	2,03

#### 12.4. Mobility in soil

The product has not been tested.

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

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

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.



**Safety Data Sheet**

according to UK REACH Regulation

**Sodium dodecyl sulfate solution 2%, Tween 0.1%**

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 9 of 12

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**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**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

## Safety Data Sheet

according to UK REACH Regulation

### Sodium dodecyl sulfate solution 2%, Tween 0.1%

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 10 of 12

No dangerous good in sense of this transport regulation.

#### SECTION 15: Regulatory information

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

###### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Information according to 2012/18/EU      Not subject to 2012/18/EU (SEVESO III)  
(SEVESO III):

###### Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]. Natriumlaurylsulfat: Use restriction according to REACH annex XVII, no.: 75.,

Substance/product listed in the following inventories: Non-exhaustive list of the most important pollutants.

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

###### National regulatory information

Employment restrictions:      Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):      1 - slightly hazardous to water

##### 15.2. Chemical safety assessment

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

#### SECTION 16: Other information

##### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,5,6,7,9,10,11,12,13,15,16.

Rev. 1,00; 16.06.2021; New generation for the purpose of customer order.

Rev. 2,0; 05.12.2023; general adjustment(s)

## Safety Data Sheet

according to UK REACH Regulation

### Sodium dodecyl sulfate solution 2%, Tween 0.1%

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 11 of 12

#### Abbreviations and acronyms

CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).  
 Flam. Sol: Flammable solids  
 Acute Tox: Acute toxicity  
 Skin Irrit: Skin irritation  
 Eye Dam: Eye damage  
 Eye Irrit: Eye irritation  
 STOT SE: Specific target organ toxicity - single exposure  
 Aquatic Chronic: Chronic aquatic hazard

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

#### Relevant H and EUH statements (number and full text)

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

**Safety Data Sheet**

according to UK REACH Regulation

**Sodium dodecyl sulfate solution 2%, Tween 0.1%**

Revision date: 05.12.2023

Product code: 19374.xxxxx

Page 12 of 12

H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

**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 receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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