

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0  
SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

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

#### 1.1 Product identifier

Trade name : DS 500 activator bath (ready to use) :

Product code 1691744

Further information : Safety Data Sheets (SDSs) for ready-to-use baths are downloaded independently by the user and it is the user's responsibility to ensure that the latest-version SDS has been obtained before using the product. SDSs are only valid when the version number of the SDS to be used matches to the version number of the SDS found in the database. For more information, please see section 3.

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

Use of the Substance/Mixture : Plating agents and metal surface treating agents, Surface treatment

Recommended restrictions on use :

Uses advised against : The information provided in the latest-version safety data sheet (SDS) applies only to a specific product formulation for that version date. Any modification of this specific formulation can render the SDS invalid and, in such cases, the Product Safety department has to be informed immediately so that a SDS appraisal may be performed.

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

Company : Bungard Elektronik GmbH & Co. KG  
Rilkestr. 1  
51570 Windeck  
Germany

Telephone : +492292928280

Company : Bungard Elektronik GmbH & Co. KG  
Rilkestr. 1  
51570 Windeck  
Germany

Telephone : +492292928280

Telefax : +492292928289

Company : Bungard Elektronik GmbH & Co KG  
Rilkestr. 1  
51570 Windeck  
Germany

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0  
SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

Telephone +492292928280

Telefax +492292928289

Prepared by  
Product Safety Department (PSD): support@bungard.de

Inquiries  
E-mail address for a competent person responsible for the safety data sheet: product-support@bungard.de

### 1.4 Emergency telephone number

CARECHEM24 INTERNATIONAL (MULTILINGUAL SERVICE) +441235239670

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H290 May be corrosive to metals.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P234 Keep only in original packaging.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

#### **Response:**

P333 + P337 + P313 If skin irritation or rash occurs or if eye

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0  
SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

irritation persists: Get medical advice/ attention.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous ingredients which must be listed on the label:

Stannous chloride

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Contains a redox system. May emit residual flammable hydrogen gas.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Stannous chloride	7772-99-8 231-868-0 01-2119971277-28	Met. Corr. 1; H290 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Cardiovascular) Aquatic Chronic 3; H412	$\geq 1 - < 2,5$
hydrochloric acid	7647-01-0 231-595-7 017-002-01-X 01-2119484862-27	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)  specific concentration limit Skin Corr. 1B; H314	$\geq 0,1 - < 1$

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

		<p>&gt;= 25 % Skin Irrit. 2; H315 10 - &lt; 25 % Eye Irrit. 2; H319 10 - &lt; 25 % STOT SE 3; H335 &gt;= 10 %</p>	
--	--	---	--

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Get medical attention.
- Protection of first aid responders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Move to fresh air.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.  
Get medical attention if irritation develops and persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, call a poison control centre or doctor immediately.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : Redness  
Dermatitis  
Eczema
- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

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

- Treatment : No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

ABC powder

Unsuitable extinguishing media : None known.

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

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions.

Hazardous combustion products : Chlorine compounds  
Hydrogen chloride gas

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus and full protective gear.

Specific extinguishing methods : Use a water spray to cool fully closed containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
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

Personal precautions : Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Evacuate personnel to safe areas.  
Prevent unauthorized access.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Soak up with inert absorbent material.  
Keep in suitable, closed containers for disposal.  
Clean contaminated surface thoroughly.  
Dispose of in accordance with local regulations.

#### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0  
SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapors or spray mist.  
For personal protection see section 8.  
Use only in area provided with appropriate exhaust ventilation.  
Do not ingest.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and at the end of workday.

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

Requirements for storage : Keep containers tightly closed in a dry, cool and well-ventilated place. May be corrosive to metals.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage temperature : -5 - 40 °C

#### 7.3 Specific end use(s)

Specific use(s) : None known.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Stannous chloride	7772-99-8	TWA	2 mg/m3 (Tin)	91/322/EEC
	Further information: Indicative, Existing scientific data on health effects appear to be particularly limited			
hydrochloric acid	7647-01-0	TWA	5 ppm 8 mg/m3	2000/39/EC
	Further information: Indicative			
		STEL	10 ppm 15 mg/m3	2000/39/EC
	Further information: Indicative			

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Stannous chloride	Workers	Inhalation	Long-term systemic effects	1,375 mg/m3
	Workers	Inhalation	Acute systemic effects	2,75 mg/m3
	Workers	Inhalation	Long-term local effects	14,51 mg/m3

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

	Workers	Inhalation	Acute local effects	14,51 mg/m3
	Workers	Dermal	Long-term systemic effects	0,39 mg/kg
	Workers	Dermal	Acute systemic effects	0,78 mg/kg
hydrochloric acid	Workers	Inhalation	Long-term local effects	8 mg/m3
	Workers	Inhalation	Long-term exposure	15 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Stannous chloride	Fresh water	0,9 mg/l
	Sewage treatment plant	12 mg/l
	Fresh water sediment	58 mg/kg

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166  
Ensure that eyewash stations and safety showers are close to the workstation location.

### Hand protection

Material : Chloroprene  
Break through time : 480 min  
Glove thickness : 0,65 mm  
Manufacturer : e.g. KCL  
Recommendation : e.g. KCL Camapren® 720

### Remarks

: The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The information is based on our own tests, on data from literature and information from protective glove producers or is based on data obtained from similar substances.

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. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : Work uniform or laboratory coat conforming to EN 13034.  
Safety shoes conforming to EN ISO 20345

Respiratory protection : Respiratory protection complying with EN 141.

No personal respiratory protective equipment normally

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0  
SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

required.

Filter type : ABEK-filter

### Environmental exposure controls

Soil : The product should not be allowed to enter drains, water courses or the soil.

Water : Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : dark gray

Odor : odorless

Melting point/freezing point :  $\leq 0$  °C

Initial boiling point and boiling range :  $> 100$  °C

Flammability : Will not burn

Upper explosion limit / Upper flammability limit : not determined, mixture of various components

Lower explosion limit / Lower flammability limit : not determined, mixture of various components

Flash point : does not flash

Autoignition temperature : stable under normal process conditions

Decomposition temperature : stable under normal process conditions

pH :  $< 2,0$  (20 °C)

Viscosity

Viscosity, kinematic : similar to water

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-octanol/water : not determined, mixture of various components

Vapor pressure : ca. 23 hPa (20 °C)

Relative density : 1,15 - 1,25 (20 °C)  
Reference substance: Water



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

Density	:	1,15 - 1,25 g/cm <sup>3</sup> (20 °C)
Relative vapor density	:	not determined, mixture of various components
Particle characteristics		
Particle size	:	Not applicable

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

May be corrosive to metals.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Gives off hydrogen by reaction with metals. Contains a redox system. May emit residual flammable hydrogen gas.
---------------------	---	---

### 10.4 Conditions to avoid

Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
---------------------	---	--

### 10.5 Incompatible materials

Materials to avoid	:	Bases Metals
--------------------	---	-----------------

### 10.6 Hazardous decomposition products

Hazardous decomposition products	:	Chlorine compounds
----------------------------------	---	--------------------

---

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

### Components:

#### **Stannous chloride:**

Acute oral toxicity : LD50 Oral (Rat): 700 mg/kg

Acute inhalation toxicity : LC50: 2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

#### **Skin corrosion/irritation**

Causes skin irritation.

### Product:

Remarks : May cause skin irritation such as skin redness, scabs, swelling or inflammation.

### Components:

#### **Stannous chloride:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive  
Remarks : ECHA registration dossier

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### Product:

Remarks : May cause eye irritation such as red eyes, superficial burning feeling or conjunctivitis.

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

May cause an allergic skin reaction.

##### **Respiratory sensitization**

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

### Product:

Remarks : Causes sensitization.

#### **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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

### 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 toxicity

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### Stannous chloride:

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

#### Components:

#### Stannous chloride:

Biodegradability : Result: Inherently biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

#### Stannous chloride:

Partition coefficient: n-octanol/water : log Pow: -2,15

### 12.4 Mobility in soil

No data available. The product itself has not been tested.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : There is no data available for this product.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 1789  
ADR : UN 1789  
RID : UN 1789  
IMDG : UN 1789  
IATA : UN 1789

### 14.2 UN proper shipping name

ADN : HYDROCHLORIC ACID SOLUTION  
ADR : HYDROCHLORIC ACID SOLUTION  
RID : HYDROCHLORIC ACID SOLUTION  
IMDG : HYDROCHLORIC ACID SOLUTION

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

**IATA** : Hydrochloric acid solution

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 8	
<b>ADR</b>	: 8	
<b>RID</b>	: 8	
<b>IMDG</b>	: 8	
<b>IATA</b>	: 8	

### 14.4 Packing group

#### **ADN**

Packing group : III  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8

#### **ADR**

Packing group : III  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

#### **RID**

Packing group : III  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8

#### **IMDG**

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

#### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

#### **IATA (Passenger)**

Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

### 14.5 Environmental hazards

#### **ADN**

Environmentally hazardous : no

#### **ADR**

Environmentally hazardous : no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

---

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0  
SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

Volatile organic compounds (VOC) content: 0,7 %

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

**Substances currently restricted by WEEE/RoHS (European Directives 2015/863/EU, 2012/19/EU and 2011/65/EU) or ELV (European Directive 2000/53/EC):**

PBDE	PBB	CrVI	Hg	Pb	Cd
-	-	-	-	-	-
Phthalates:		DEHP	BBP	DBP	DIBP
		-	-	-	-

Please note: Current legislation according to WEEE/RoHS or ELV restricting the use of certain substances applies to "homogeneous material" in finished articles being supplied to the market. Substances deposited during surface finishing may have a composition (weight percent) higher than the weight percent of the substance in the operating solution from which the deposit is made. Bungard encourages its customers to implement systems to ensure their finished products comply with the regulations in force.

### 15.2 Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-Statements

H290	: May be corrosive to metals.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Met. Corr.	: Corrosive to metals
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## DS 500 activator bath (ready to use)

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

91/322/EEC	:	Europe. Commission Directive 91/322/EEC on establishing indicative limit values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
91/322/EEC / TWA	:	Limit Value - eight hours

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

### Further information

Other information : Indication of changes: Vertical lines in the left hand margin indicate an amendment from the previous version.  
Classification derived using methods described in regulation EU/1272/2008.

Sources of key data used to compile the Material Safety Data Sheet : Information taken from reference works and the literature.

### Classification of the mixture:

Met. Corr. 1	H290
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is



# **SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

## **DS 500 activator bath (ready to use)**

Version 1.0

SDS\_GEN\_EU

SDS Number: 1691744

Revision Date: 23.11.2024

---

not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

EU / EN