

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Pallamond Anhydrous

Revision date: 05.04.2023

Product code: W1520

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

#### 1.1. Product identifier

Pallamond Anhydrous

Substance name: disodium metasilicate  
 REACH Registration Number: 01-2119449811-37-XXXX  
 CAS No: 6834-92-0  
 Index No: 014-010-00-8  
 EC No: 229-912-9

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

##### Use of the substance/mixture

Manufacture of cosmetics

##### Uses advised against

Any non-intended use.

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

Company name: Satcotek GmbH  
 Street: Gotenstrasse 13  
 Place: D-20097 Hamburg  
 Telephone: +49(0)40-5303669711  
 Internet: www.satcotek.com  
 Responsible Department: info@satcotek.com  
 Telefax: +49(0)40-5303669766

#### 1.4. Emergency telephone number:

+49(0)40-5303669711

#### Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

### SECTION 2: Hazards identification

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

##### Regulation (EC) No 1272/2008

Met. Corr. 1; H290  
 Skin Corr. 1B; H314  
 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

##### Hazard components for labelling

disodium metasilicate

Signal word: Danger

##### Pictograms:



##### Hazard statements

H314 Causes severe skin burns and eye damage.  
 H335 May cause respiratory irritation.

##### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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P264	Wash hands thoroughly after handling.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501	Dispose of contents/container to local/regional/national/international regulations.

### 2.3. Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
6834-92-0	disodium metasilicate			99 - < 100 %
	229-912-9	014-010-00-8	01-2119449811-37-XXXX	
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335			

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		
6834-92-0	229-912-9	disodium metasilicate	99 - < 100 %
	inhalation: LC50 = > 2,06 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 770 - 820 mg/kg		

#### Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

### 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

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Water fog.

#### Unsuitable extinguishing media

High power water jet.

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

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

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

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

## SECTION 6: Accidental release measures

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

#### General advice

Avoid dust formation.

Do not breathe dust.

#### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

#### For emergency responders

No special measures are necessary.

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

#### For containment

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

#### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Safe handling: see section 7

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 personal protection equipment (refer to section 8).

#### Advice on protection against fire and explosion

Usual measures for fire prevention. Dust clouds may present an explosion hazard.

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**Advice on general occupational hygiene**

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

**Further information on handling**

Avoid generation of dust.

General protection and hygiene measures: refer to chapter 8

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

Keep container tightly closed in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

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

See section 1.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
-	Dusts non-specific, respirable	-	4		TWA (8 h)	
-	Dusts non-specific, total inhalable	-	10		TWA (8 h)	

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
6834-92-0	disodium metasilicate			
Worker DNEL, long-term		inhalation	systemic	6,22 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,49 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,74 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
6834-92-0	disodium metasilicate	
Freshwater		7,5 mg/l
Freshwater (intermittent releases)		7,5 mg/l
Marine water		1 mg/l
Micro-organisms in sewage treatment plants (STP)		1000 mg/l

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**8.2. Exposure controls**



**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Dust must be exhausted directly at the point of origin.

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

**Eye/face protection**

Dust protection goggles.

**Hand protection**

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

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.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Generation/formation of dust

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

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.

**Thermal hazards**

Material handled at elevated temperature may cause thermal burns by contact with molten product.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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### SECTION 9: Physical and chemical properties

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

Physical state:	solid
Colour:	white
Odour:	characteristic
Odour threshold:	not determined

#### Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	1089 °C
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not relevant

#### Flammability

Solid/liquid:	not determined
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#### Explosive properties

Dust clouds may present an explosion hazard.

Lower explosion limits:	not relevant
Upper explosion limits:	not relevant
Auto-ignition temperature:	not relevant

#### Self-ignition temperature

Solid:	not determined
Decomposition temperature:	not determined
pH-Value:	12-13 (10 g/l)
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not relevant
Flow time:	not determined

Water solubility: (at 20 °C)	210 g/L
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#### Solubility in other solvents

not determined

Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	SECTION 12: Ecological information
Dispersion stability:	not relevant
Vapour pressure:	not determined
Density:	1,05-1,35 g/cm³
Relative density:	not determined
Bulk density:	not determined
Relative vapour density:	not relevant
Particle characteristics:	not determined

#### 9.2. Other information

##### Information with regard to physical hazard classes

Sustaining combustion:	Not sustaining combustion
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Oxidizing properties  
none

### Other safety characteristics

Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Evaporation rate:	not determined

### Further Information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.  
Refer to chapter 10.5.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

No data available.

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
6834-92-0	disodium metasilicate				
	oral	LD50 mg/kg 770 - 820	Mouse	Toxicol. Lett. 31 (Suppl. P1-28), 44 (19	
	dermal	LD50 mg/kg > 5000	Rat	ECHA Dossier	EPA OPPTS 870.1200
	inhalation (4 h) vapour	LC50 mg/l > 2,06	Rat	ECHA Dossier	EPA OPPTS 870.1300

#### Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)  
Causes serious eye damage. (On basis of test data)

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

May cause respiratory irritation. (disodium metasilicate)

### 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.

### Specific effects in experiment on an animal

No data available.

## 11.2. Information on other hazards

### Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to humans.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
6834-92-0	disodium metasilicate					
	Acute fish toxicity	LC50	210 mg/l	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50	207 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50	1700 mg/l	48 h	Daphnia magna	ECHA Dossier
	Acute bacteria toxicity	(EC50	> 100 mg/l)	3 h	activated sludge, domestic	ECHA Dossier
						ISO 7346-1
						DIN 38412, Teil 9
						EU Method C.2
						OECD Guideline 209

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

### 12.7. Other adverse effects

No data available.

### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

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**13.1. Waste treatment methods**

**Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

060899 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of silicon and silicon derivatives; wastes not otherwise specified

**List of Wastes Code - used product**

060899 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of silicon and silicon derivatives; wastes not otherwise specified

**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**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number or ID number:**

UN 3253

**14.2. UN proper shipping name:**

DISODIUM TRIOXOSILICATE

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Classification code:

C6

Limited quantity:

5 kg

Excepted quantity:

E1

Transport category:

3

Hazard No:

80

Tunnel restriction code:

E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:**

UN 3253

**14.2. UN proper shipping name:**

DISODIUM TRIOXOSILICATE

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Classification code:

C6

Limited quantity:

5 kg

Excepted quantity:

E1

**Marine transport (IMDG)**

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**14.1. UN number or ID number:** UN 3253  
**14.2. UN proper shipping name:** DISODIUM TRIOXOSILICATE  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Special Provisions: -  
Limited quantity: 5 kg  
Excepted quantity: E1  
EmS: F-A, S-B  
Segregation group: 18 - alkalis

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

**14.1. UN number or ID number:** UN 3253  
**14.2. UN proper shipping name:** DISODIUM TRIOXOSILICATE  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Special Provisions: A803  
Limited quantity Passenger: 5 kg  
Passenger LQ: Y845  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 860  
IATA-max. quantity - Passenger: 25 kg  
IATA-packing instructions - Cargo: 864  
IATA-max. quantity - Cargo: 100 kg

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

refer to chapter 6 - 8

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

not relevant

## 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 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

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

#### Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)  
This substance is hazardous in the sense of regulation (EC) No 1272/2008 (CLP).

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REACH 1907/2006 Appendix XVII, No.: -

#### 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

For this substance a chemical safety assessment has been carried out.

### SECTION 16: Other information

#### Changes

Rev. 1,0; Initial release: 05.04.2023

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging of substances and mixtures  
DNEL: Derived No Effect Level  
d: day(s)  
EINECS: European INventory of Existing Commercial chemical Substances  
ELINCS: European List of Notified Chemical Substances  
ECHA: European Chemicals Agency  
EWC: European Waste Catalogue  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
h: hour  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect concentration  
NLP: No-Longer Polymers  
N/A: not applicable  
OECD: Organisation for Economic Co-operation and Development  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
REACH: Registration, Evaluation, Authorisation of Chemicals  
SVHC: substance of very high concern  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds

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

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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**Further Information**

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.