# **SAFETY DATA SHEET**

### SODIUM METASILICATE ANHYDROUS

 This document complies with the European Regulation (EC) No. 1907/2006 (REACH), as amended by regulation (EC) No 453/2010.

 Issue Number :
 12

 Issue Date :
 19/02/2018

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : Chemical name(s) : trioxosilicate Formula : CAS-nr. : EC-nr. : REACH registration nr. : Sodium metasilicate anhydrous granules or powder Disodium metasilicate anhydrous, Disodium

Na<sub>2</sub>SiO<sub>3</sub> 6834-92-0 229-912-9 01-2119449811-37-0004

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

Identified use(s):

Industrial uses Consumer uses Professional uses

Uses advised against:

None known

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

Adress:

Telephone: Fax: Email: SILMACO NV Industrieweg 90 B-3620 Lanaken Belgium +32 (0)89/730 222 +32 (0)89/722 724 info@silmaco.com

#### **1.4.** Emergency telephone number

SILMACO : Poison Center : +32 (0)89/730 222 (only during office hours) +32 (0)70/245 245 (24/24h)

### 2. HAZARDS IDENTIFICATION

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

GHS Classification according to EC 1272/2008:

Hazard classes/categories Hazard Statements	
Metal Corr. 1	H290: May be corrosive to metals.
Skin Corr. 1B / Eye Dam. 1	H314: Causes severe skin burns and eye damage.
STOT SE 3	H335: May cause respiratory irritation

Hazards summary:

Strongly alkaline. Causes burns. Irritating to respiratory system. May cause permanent damage to eyes.

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#### 2.2. Label elements (according to EC 1272/2008)

Hazard pictogram(s) :



Signal word(s):

Hazard statement(s):

Precautionary statement(s): dust/fume/gas/mist/vapours/spray. Danger

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

P261: Avoid breathing

P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: rinse mouth. Do

NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair):

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

Not applicable

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Ingredient(s)	%WW	EC-nr.	<b>REACH registration</b>	GHS-classification
			nr.	according to EC 1272/2008
Disodium	100	229-912-9	01-2119449811-37-	Metal Corr. 1 – H290
metasilicate			0004	Skin Corr. 1B/Eye Dam. 1 – H314
anhydrous				STOT SE 3 – H335

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

After eye contact:	Immediately flush eyes with eyewash solution or water (for 10 minutes). See
	an oculist.
After skin contact:	Rinse with running water and soap. Apply replenishing cream. Change all
	contaminated clothing.
After inhalation:	After inhalation of dust: seek medical advice.
After ingestion:	Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.
-	-

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

- $\Rightarrow$  Strongly alkaline. Causes burns.
- $\Rightarrow$  Irritating to respiratory system.
- $\Rightarrow$  May cause permanent damage to eyes.

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

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### **5. FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing Media**

Suitable extinguishing media:

Not applicable. Inorganic material. Non-combustible, therefore define extinguishing measures according to neighbouring conditions.

Unsuitable extinguishing media: Not applicable.

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

Not applicable. Inorganic material. Non-combustible.

#### **5.3.** Advice for firefighters

No particular measures required.

### 6. ACCIDENTAL RELEASE MEASURES

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

- $\Rightarrow$  Avoid contact with skin and eyes, do not breath dust.
- ⇒ Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling.
- $\Rightarrow$  Danger of slipping on spilled product.

#### **6.2. Environmental precautions**

- ⇒ Do not allow to enter drains / surface water / ground water. Prevent the spreading of the product into the environment by diking with soil or other absorbent material
- ⇒ Contact the authorities in the event of large product spillage to water courses or sewage systems or if spillage has contaminated soil.

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

- $\Rightarrow$  Collect as much as possible in a (clean) container for recovery or disposal.
- $\Rightarrow$  Remove last traces by diluting with plenty of (warm) water

#### **6.4. Reference to other sections**

See also section 8

### 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

- $\Rightarrow$  Avoid creation of dust, do not breath dust.
- $\Rightarrow$  Avoid contact with eyes, skin and clothing.
- $\Rightarrow$  Wear protective equipment, see also section 8.
- $\Rightarrow$  Eye wash facilities should be readily available.

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

- $\Rightarrow$  Keep packaging / storage vessel closed and dry
- $\Rightarrow$  Protect packaging from freezing, rain or direct sun
- $\Rightarrow$  Keep away from acids
- $\Rightarrow$  Compatible materials : (Stainless) steel
- $\Rightarrow$  Incompatible materials : Zinc, Tin, Aluminum, Cupper and their alloys
- $\Rightarrow$  See also title 10

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

None known

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

Substance	Occupational exposure limits
Disodium metasilicate	The derived DNEL for inhalation is higher than the existing OEL for dust, therefore
	longterm systemic effects caused by disodium metasilicate are not expected to occur as
	long as the OEL is complied with. The existing OEL (TRGS 900, June 2008) for dust
	is 3 mg/m <sup>3</sup> (alveolar fraction) and 10 mg/m <sup>3</sup> (respirable fraction).

Derived No Effect Level (DNEL)	Oral / mg/kg bw/d	Inhalation / mg/m3	Dermal mg/kg bw/d
Workers – Long Term – Systemic	-	6,22	1,49
effects			
Consumers – Long Term – Systemic	0,74	1,55	0,74
effects			

Predicted No Effect Concentration (PNEC)	mg/L
Fresh water	7,5
Marine water	1
Intermittent water	7,5
Sewage treatment plant	1000

#### **8.2. Exposure controls**

#### 8.2.1. Engineering controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personal enclosure, mechanical ventilation (dilution and local exhaust) and control of process conditions.

#### 8.2.2. Personal protection

<b>Resipatory protection</b> :	Avoid inhalation of dusts. Wear suitable respiratory protective equipment conforming to EN140 with type A/P2 filter or better if working in confined	
	spaces with inadequate ventilation.	
Eye/face protection:	Wear suitable tightly fitting goggles.	
Skin protection:	Wear suitable protective clothing and alkaline resistant gloves (PVC,	
	rubber or natural latex) tested according to EN 374.	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

white granules or powder
odourless
not applicable
> 12,5 (1% solution)
$\pm 1089^{\circ}C$
not applicable
0,90 – 1,30 kg/l
soluble
no data

 $\Rightarrow$  Partition coefficient

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not applicable

- $\Rightarrow$  Auto ignition temperature (°C) not applicable
- $\Rightarrow$  Decomposition temperature (°C) not applicable
- $\Rightarrow$  Viscosity (mPa.s)
- not applicable
- $\Rightarrow$  Explosive properties not applicable not applicable
- $\Rightarrow$  Oxidising properties

#### 9.2. Other information

No data

### **10. STABILITY AND REACTIVITY**

#### 10.1. Reactivity

See section 10.3.

#### **10.2.** Chemical stability

Stable under recommended storage and handling conditions

#### **10.3.** Possibility of hazardous reactions

- $\Rightarrow$  Aqueous solutions will react with aluminium, zinc, tin, cuppur and their alloys evolving hydrogen gas which can form an explosive mixture with air.
- $\Rightarrow$  Exothermic reaction if in contact with acids

#### **10.4.** Conditions to avoid

Avoid prolonged contact with ambient air : hygroscopic behaviour may induce formation of lumps. Avoid contact with concentrated acids.

#### **10.5.** Incompatible materials

Avoid contact with aluminum, zinc, tin, cupper and their alloys

#### 10.6. Hazardous decomposition products

None known

### **11. TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

#### Acute toxicity

All symptons of acute toxicity are due to high alkalinity.

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$\Rightarrow$ Ingestion: Materia			l will cause chemical burns. Oral LD50 (rat): 1152-1349 mg/kg bw	
$\Rightarrow$	Inhalation:	Dust is	severely irritant to the respiratory tract. Inhalation $LC50$ (rat) > 2,06	
			g/m3	
$\Rightarrow$	Skin contact:	Materia	l will cause chemical burns. Dermal LD50 (rat) > 5000 mg/kg bw.	
$\Rightarrow$	Eye contact:	Materia	l will cause chemical burns. May cause permanent damage if eye is	
	not		immediately irrigated.	
Skin co	rrosion/irritation:		Corrosive to skin.	
Serious	eye damage/irrita	tion:	Corrosive to eyes.	
Sensitisation:			Not sensitising (LLNA).	
Mutagenicity:			No evidence of genotoxicity. In vitro/in vivo negative.	
Carcinogenicity:			No structural alerts.	
Reprod	luctive toxicity:		Effects on fertility: NOAEL (rat) > 159 mg/kg bw/d.	
			Developmental toxicity: NOAEL (mouse) > 200 mg/kg bw/d.	
STOT-single exposure:			Irritating to respiratory system.	
STOT-repeated exposure:		:	NOAEL oral (rat): 227 mg/kg bw/d	
			NOAEL oral (mouse): 260 mg/kg bw/d	
Aspirat	tion hazard:		Not classified.	
-				

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### **12. ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

- $\Rightarrow$  Acute fish toxicity (Brachydanio rerio): LC50 (96 hour): 210 mg/l
- ⇒ Acute invertebrates toxicity (Daphnia magna): EC50 (48 hour): 1700 mg/l
- ⇒ Algae / cyanobacteria (Scenedesmus subspicatus): EC50 (72 h, biomass): 207 mg/L, EC50 (72 h, growth rate): > 345.4 mg/L

#### 12.2. Persistence and degradability

Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others to end up as insoluble compounds similar to constituents of natural soils.

#### 12.3. Bioaccumulative potential

Inorganic. The substance has no potential for bioaccumulation.

#### 12.4. Mobility in soil

Not applicable.

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

Not classified as PBT or vPvB.

#### 12.6. Other adverse effects

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

### **13. DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

- $\Rightarrow$  Waste disposal according national or regional regulations, neutralisation prior to disposal is advisory
- ⇒ Dispose contaminated packaging according national or regional regulations, preliminary cleaning with water is advisory
- $\Rightarrow$  EWC (European Waste Catalog) -number : 06 02 99

### **14. TRANSPORT INFORMATION**

14.1. UN number	3253
14.2. UN proper shipping name	Disodium trioxosilicate
14.3. Transport hazard class(es)	8
14.4. Packing Group	III
14.5. Environmental hazards	Not classified as a marine pollutant
14.6. Special precautions for user	See title 7.2. for incompatible materials
14.7. Transport in bulk according to annex II of MARPOL73/78 and the IBC Code	Not applicable

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### **15. REGULATORY INFORMATION**

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

Country	Inventory	Listing status
Australia	AICS	Reported/included
Canada	DSL	Reported/included
China	SEPA/IECSC	Reported/included
Japan	MITI/ENCS	Reported/included
New Zealand	ERMA/HSNO	Reported/included
Philippines	PICCS	Reported/included
South Korea	ECL	Reported/included
Taiwan	TCSI	Reported/included
Turkey	CICR	Reported/included
USA	TSCA	Reported/included

#### 15.2. Chemical safety assessment

A chemical safety assessment has been conducted. The results are summarized in annex. The annex covers workplace and consumer exposure scenario's.

### **16. OTHER INFORMATION**

The following sections contain revisions or new statements:

• Section 15.1: extended the overview of the listing in the national inventories

Sources of key data: IUCLID and CSR disodium metasilicate

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### ANNEX TO SAFETY DATASHEET

Section 1	Exposure Scenario Title		
Title	Workplace exposure to disodium metasilicate (EC 229-912-9) powders		
Use Descriptor	Sector of Use (SU) 3 and 22 (including the supplementary SU's 2a, 2b, 4, 5,		
	6b, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23)		
	Process Categories (PROC): 1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 10, 11, 13, 14, 15,		
	17, 19, 21, 22, 23, 24, 25, 26		
	Environmental Release Categories (ERC): 1, 2, 3, 4, 5, 6b, 6d, 7, 8a, 8b, 8c,		
Processes, tasks, activities	8d, 8f Manufacture and formulation of the substance as well as industrial and		
covered	professional uses.		
Section 2	Operational conditions and risk management measures		
Section 2	-		
	If possible, local exhaust ventilation should be used. In addition, whenever disodium metasilicate as a substance on its own or in a preparation is handled outside closed systems, suitable personal protective equipment (gloves, goggles, dust masks or respirators) is the preferred and only measure of control.		
Section 2.1	Control of worker exposure		
Product characteristics			
Physical form of product	solid, powder, vapour pressure 1.03 Pa (1175 °C)		
Concentration of substance in	Covers percentage substance in the product up to 100 %, unless otherwise		
product	stated.		
Amounts used	No limit		
Frequency and duration of use	Covers frequency up to: daily use, weekly, monthly, yearly, unless otherwise stated.		
Human factors not influenced by risk management	Not applicable		
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. The work occurs inside as well outside.		
Contributing Scenarios	Risk Management Measures.		
PROC 1, 2, 3	Handle substance within a closed system. No other specific measures identified.		
PROC 4, 5, 6, 8a, 8b, 9, 10, 13,	Wear suitable gloves (tested to EN374) and eye protection.		
14, 15, 17, 19, 21, 22, 23, 24, 25, 26			
PROC 7, 11	Provide enhanced general ventilation by mechanical means. Wear suitable		
	gloves (tested to EN374) and eye protection. or		
	Wear a respirator conforming to EN140 with Type A/P2 filter or better.		
	Wear suitable gloves (tested to EN374) and eye protection.		
Section 2.2	Control of environmental exposure		
	Not required, as soluble silicates including disodium metasilicate do not meet		
	the criteria for classification as dangerous to the environment according to $67/548$ (EEC (See Article 14.4 of REACH Regulation)		
	67/548/EEC (See Article 14.4 of REACH Regulation). Furthermore, as high production volume substances, soluble silicates have		
	been reviewed to a great extent for their exposure potential to the		
	environment and the possible risks arising from their release (Van Dokkum		
	et al. 2002, OECD SIDS 2004, HERA 2005, and CEES 2008). It was		
	concluded that soluble silicates are currently of low priority for further work		
	because of their low hazard profile.		

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Section 3	Exposure Estimation
3.1.	Health
When the recommended risk management measures (RMM) and operational conditions (QC) including personal	

protective equipment (PPE) are used, the exposure to powders of disodium metasilicate will be negligible. RMMs are based on a qualitative risk characterization.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1.	Health

The implemented RMMs and OCs including PPE will ensure that workers' exposure is reduced in a way that health hazard effects are avoided and that the risk is considered to be adequately controlled.

Section 1	Exposure Scenario Title	
Title	Workplace exposure to disodium metasilicate (EC 229-912-9) solutions	
Use Descriptor	Sector of Use (SU) 3 and 22 (including the supplementary SU's 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	
	Process Categories (PROC): 1, 2, 3, 4, 5, 6, 7, 8a, 8b, 19, 20, 21, 22, 23, 24, 25	, 9, 10, 11, 13, 14, 15, 17,
	Environmental Release Categories (ERC): 1, 2, 3, 4, 3 9a, 9b	5, 6b, 6d, 7, 8a, 8c, 8d, 8f,
Processes, tasks, activities covered	Manufacture and formulation of the substance as well professional uses.	as industrial and
Section 2	Operational conditions and risk management mea	sures
	If possible, local exhaust ventilation should be used. I	
	disodium metasilicate as a substance on its own or in outside closed systems, suitable personal protective e dust masks or respirators) is the preferred and only m	a preparation is handled quipment (gloves, goggles,
Section 2.1	Control of worker exposure	
Product characteristics		
Physical form of product	liquid, solution, vapour pressure 1.03 Pa (1175 °C)	
Concentration of substance in	Covers percentage substance in the product up to 100	%, unless otherwise
product	stated.	
Amounts used	No limit	
Frequency and duration of use	Covers frequency up to: daily use, weekly, monthly, y	vearly
Human factors not influenced by risk management	Not applicable	
Other Operational Conditions	Assumes a good basic standard of occupational hygiene is implemented. The	
affecting worker exposure	work occurs inside as well outside.	
<b>Contributing Scenarios</b>	Risk Management Measures.	
PROC 1, 2, 3	Handle substance within a closed system. No other sp	becific measures identified.
PROC 4, 5, 6, 8a, 8b, 9, 10, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24, 25	Wear suitable gloves (tested to EN374) and eye protection.	
PROC 7, 11	Provide enhanced general ventilation by mechanical r	means [E48]. Wear
	suitable gloves (tested to EN374) and eye protection.	
	Wear a respirator conforming to EN140 with Type A suitable gloves (tested to EN374) and eye protection.	
Section 2.2	Control of environmental exposure	
	Not required, as soluble silicates including disodium	metasilicate do not meet
	the criteria for classification as dangerous to the envir 67/548/EEC (See Article 14.4 of REACH Regulation	
	production volume substances, soluble silicates have	•
	extent for their exposure potential to the environment	-
	arising from their release (Van Dokkum et al. 2002, C	
	2005, and CEES 2008). It was concluded that soluble	
low priority for further work because of their low hazard profile.		aru prome.
Section 3 3.1.	Exposure Estimation Health	
	anagement measures (RMM) and operational condition	ns (OC) including personal
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protective equipment (PPE) are used, the exposure to aqueous solutions of disodium metasilicate will be negligible. RMMs are based on a qualitative risk characterization.

	Section 4	Guidance to check compliance with the Exposure Scenario	
	4.1.	Health	

The implemented RMMs and OCs including PPE will ensure that workers' exposure is reduced in a way that health hazard effects are avoided and that the risk is considered to be adequately controlled.

Section 1 Exposure Scenario Title					
Title					
Use in Consumer products					
Use Descriptor					
Sector(s) of Use (SU)			21		
Product Categories (PC)			1, 3, 8, 9a, 9b, 9c, 15, 16, 17, 31, 34, 35, 39		
Environmental Release Categories (ERC)			8a, 8b, 8c, 8d, 8e, 8f, 9a, 9b		
Environmental Release Categories (ERC)					
Processes, tasks, activities cov	vered				
Covers general exposures to consumers arising from the use of household products sold					
Assessment Method					
See Section 3.					
Section 2 Operational conditions and risk management measures					
Section 2.1 Control of consumer exposure					
Product characteristics	•				
Physical form of product	Powder or liquid				
Vapour pressure	1.03 Pa (1175 °C)				
Concentration of substance in	Unless otherwise stated, cover concentrations up to 100%				
product					
Amounts used	No limit				
Frequency and duration of	Covers frequency up to: daily use, weekly, monthly, yearly				
use/exposure					
Other Operational Conditions	Unless otherwise stated assumes use at ambient temperatures; assumes use in a				
affecting exposure	20 m <sup>3</sup> room (ECHA guidance R.15, 2008) assumes use with typical ventilation.				
Product Category					
(OC) (only required controls to demonstrate safe use listed)					
PCs - general case	OC	addres use (he derma availal concer agglor	ssumer products the irritation hazard of soluble silicates is ssed, if necessary, by appropriate labelling and the advice to ousehold) gloves on the consumer product. In general, l, inhalation and oral consumer exposure to commercially ble products is minimised due to formulation (limited ntration of soluble silicates, particle size distribution, neration and dust potential, tablets and gels), packaging and ste of commercially available products.		
	RMM	No spe	ecific RMMs identified beyond those OCs stated.		
PC 1, 3, 8, 9a, 9b, 9c, 15, 16,	OC	-	s use up to 365 days/year; covers use under typical		
17, 31, 34, 35, 39			hold ventilation.		
	RMM	No spe	ecific RMMs identified beyond those OCs stated.		
usually not the case, are used. use household gloves on the co commercially available produc of dust potential by agglomerat (sealing of tablets, child-resista	in local irritat This hazard is a nsumer produc ts is minimised ion or use of ta nt fastenings)	address ct. In ge l by for ablets a or dena			
Section 4 Guidance to check compliance with the Exposure Scenario					
4.1. Health					
implemented, including technic storage and disposal instruction	cal use instructions. The implement	ions, in nented 1	structions and the communication on the safe use should be astructions on use of protective clothing and behaviour, risk mitigation measures will ensure that consumer´ ets are avoided and that the risk is considered to be		

adequately controlled.

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