

# SAFETY DATA SHEET

Conform EU No. 1907/2006 (REACH), Annex II

## FAST-DENSIFY S

Version : 1.0

Revision date: 02/03/2015

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

#### 1.1 Product identifier

FAST-DENSIFY S

Chemical name/Synonym: Sodium silicate , solution

REACH registratienumber :

CAS Nr. :

EINICS Nr. :

Index-number (Annex nr. VI CLP)

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

SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites.

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

Name: FAST-GRIND BVBA

Address: Gijzenzelestraat 10, 9860 Gijzenzele, Belgium

Telephone: +32 498358057

E-mail: info@fast-grind.com

#### 1.4 Emergency telephone number

FAST-GRIND (Weekdays 7:30 – 17:00):

+32 498358057

Belgium National Poisoning Information Centre:

+32 (0)70 245 245

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not classified.

#### 2.2 Label elements

**Label in accordance with Regulation (EC) No 1272/2008**

\* According to the applicable legislation, this product has not to be labelled.

\* Precautionary statements

Hazard symbols: None

Signal word: None

Contains:

Hazards statements: None

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

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### 2.3 Other hazards

Physical/chemical hazards:	No significant danger.
Hazards for the health:	A health dangerous concentration in the air will not or very slowly be reached by evaporation of this substance at app. 20°C; by spraying much faster.
Hazards for the environment:	Product causes a strong rise of the pH-value of water and soil. This product is no substance or contains no PBT or vPvB (in accordance with Annex XIII).
Hazards for the safety:	No significant danger.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical discription

Preparation based on sodium silicate (MR> 3.2) and water.

### 3.2 Substances

-

### 3.3 Mixtures

Information on ingredients / Hazardous ingredients according to EU CLP Regulation (EC) no. 1272/2008.

Name	CAS-nr.	EINECS-nr.	Reach nr	Weight %	Classification
Sodium silicate (MR>3.2)	1344-09-8	215-687-4	01-2119448725-31	10 % < 20%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

The full text of the (EU)H-statements is in section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General:	In case of doubt or persistent symptoms, call a physician. Never give anything by mouth to an unconscious person.
Inhalation:	Remove victim into fresh air. Allow the affected person to rest in semi-sitting position. Consult a doctor.
Skin Contact:	Remove contaminated clothing. Rinse skin immediately with plenty of water. (shower if necessary).
Eye Contact:	Rinse immediately thoroughly and long (at least 15 min.) with plenty of water. Remove contact lenses. Consult eye doctor. Keep rinsing or dripping the eye during transport.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. Give water to drink. Seek medical advice.

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

See section 11.

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

For specialist advice doctors should contact the NVCI or the Belgian Poison center.

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Extinguishing powder , Foam , Carbon dioxide (CO<sub>2</sub>), Water spray.

Unsuitable extinguishing media: Not known.

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

Not applicable.

#### 5.3 Advice for firefighters

Special Protective Equipment for:  
Firefighters Use self-contained breathing apparatus and wear protective clothes when in close proximity to fire.

Special Procedures: Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

### 6. ACCIDENTAL RELEASE MEASURES

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

Evacuate all personnel immediately and ventilate area.

Avoid breathing vapour and contact with skin and eyes.

Wear recommended personal protective equipment. (See section 8).

#### 6.2 Environmental precautions

Shut off leaks if without risks.

Dike in the spilled product as much as possible with inert material.

Prevent entry of product in public water, sewers or soil.

Notify authorities if product enters sewers or public waters.

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

Collect the spillage in closable, suitable disposal containers.

Clean up any spills as soon as possible, using an inert absorbent material.

Residue is to be washed down with plenty of water.

#### 6.4 Reference to other sections

For personal protection, see section 8.

For the removal of the waste product, see section 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid breathing vapour and contact with skin and eyes.

Wear recommended personal protective equipment. (See section 8)

When using, do not eat, drink or smoke.

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Wash hands before and after working with the product.  
Emergency eye wash fountains and showers should be available in the immediate vicinity of any potential exposure.

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

#### Storage:

Keep only in the original, safely locked container in a cool and well ventilated place.  
Protect from freezing.  
Keep away from: Acids.

#### Packaging Material:

Steel.

#### Insuitable Packaging Material:

Zinc , Tin , Aluminium , Copper (+ Alloys).

### 7.3 Specific end use(s)

V For identified uses, see subsection 1.2 and/or exposure scenarios.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure Limits:	Not established.
Biological limit values:	They will be included when available.
DNELs:	Sodium silicate (MR>3.2) : Worker, long-term - systemic effects, inhalation : 5,61 mg/m <sup>3</sup> .  Sodium silicate (MR>3.2) : Worker, long-term - systemic effects, dermal : 1,59 mg/kg bw/ day.  Sodium silicate (MR>3.2) : Consumer, long-term - systemic effects, inhalation : 1,38 mg/m <sup>3</sup> .  Sodium silicate (MR>3.2) : Consumer, long-term - systemic effects, dermal : 0,80 mg/kg bw/ day.  Sodium silicate (MR>3.2) : Consumer, long-term - systemic effects, oral : 0,80 mg/kg.
PNECs:	Sodium silicate (MR>3.2) : Fresh water : 7,5 mg/l Sodium silicate (MR>3.2) : Marine water: 1 mg/l Sodium silicate (MR>3.2) : Intermittent release: 7,5 mg/l Sodium silicate (MR>3.2) : Sewage treatment plant: 348mg/l <sup>3</sup>

### 8.2 Exposure controls

Engineering Measures: Ventilation , Local exhaust.

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### Personal Protection Equipment

Eye/Face protection:	Safety glasses or face shield.
Respiratory protection:	No special respiratory protection equipment is recommended under normal conditions of anticipated use with adequate ventilation.
Hand protection:	Suitable material for safety gloves (EN 374): The suitability of the gloves and the breakthrough time for a specific workplace should be discussed with the producers of the protective gloves. - material : Butyl rubber - thickness : 0,11 mm - breakthrough time : > 8 h
Skin protection:	Suitable protective clothing.

### Environmental exposure controls:

See sections 6, 7, 12 and 13..

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Colour	Colourless
Odour	Odourless
Odour threshold	Not applicable
pH	10 - 13 (1% sol.)
Melting point	0°C to -12°C
Boiling Point/Range	Ca. 100°C (1013 hPa)
Flash point	Not applicable
Evaporation rate	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No data available
Density	1,18 g/cm <sup>3</sup> ±0,03 (20°C)
Solubility in water	Complete solubility
Log P Octanol/Water	Not established
Auto-ignition temperature	Not established
Viscosity	5 – 5000 mPa.s

### 9.2 Other Information

surface tension	Not established
Oxidizing properties	Not established

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Reacts violently with acids.

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### 10.2 Chemical stability

Stable at normal circumstances..

### 10.3 Possibility of hazardous reactions

Can react with sugar residues to form Carbon monoxide.

Contact with metals (Al, Zn, Sn, ...) may cause corrosion and release inflammable hydrogen gas.

### 10.4 Conditions to avoid

None under normal conditions..

### 10.5 Incompatible materials

Acids , Aluminium , Zinc , Copper (+ Alloys).

### 10.6 Hazardous decomposition products

None known.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

- Inhalation: Aerosols may be irritating to respiratory tract.  
Symptoms include: Sore throat , Cough , Shortness of breath.
- Skin contact: May be slightly irritating for the skin.  
Symptoms include: Redness , Pain .
  - Sodium silicate (MR>3.2) : LD50 (Rat, dermal) : >5000 mg/kg
- Ingestion: Symptoms include: Sore throat , Abdominal pain, Nausea, vomiting.
  - Sodium silicate (MR>3.2) : LD50 (Rat, oral) : 3400 mg/kg

Skin corrosion/irritation: Slightly irritating

Serious eye damage/irritation: Slightly irritating

Aspiration hazard: Not considered hazardous

Respiratory or skin sensitisation: Not sensitive

Carcinogenicity: Not listed as carcinogenic.

Mutagenicity: Not listed as mutagenic

Reproductive toxicity: Not listed for reproductive toxicity

Specific target organ toxicity-  
single exposure To human : Listed not for organ toxicity.  
For animals : No effects known.

Specific target organ toxicity-  
Repeated exposure To human : Listed not for organ toxicity.  
For animals : No effects known.

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### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- Ecotoxicity:
- Sodium silicate (MR>3.2) : EC50 (Daphnia magna, 48 h) : 1700 mg/l
  - Sodium silicate (MR>3.2) : EC50 (Algae, 72 h) : 207 mg/l (Scenedesmus subspicatus)
  - Sodium silicate (MR>3.2) : LC50 (Fish, 96 h) : 1108 mg/l (Brachydanio rerio)

#### 12.2 Persistence and degradability

Sodium silicate (MR>3.2) : Persistence and degradability : Inorganic product.

#### 12.3 Bioaccumulative potential

Sodium silicate (MR>3.2) : Bioaccumulation : No bioaccumulation.

#### 12.4 Mobility in soil

Sodium silicate (MR>3.2) : Mobility : Completely soluble in water.

#### 12.5 Results of PBT and vPvB assessment

Sodium silicate (MR>3.2) : PBT/vPvB : No

#### 12.6 Other adverse effects

WGK class (DE) :	1 ( Weak water pollutant ).
Water damaging (NL) :	11
Decontamination exertion (NL) :	B
Photochemical ozone creation potential :	No data available.
Ozone depletion potential :	No data available.
Endocrine disrupting potential :	No data available.
Global warming potential :	No data available.

### 13. DISPOSAL CONSIDERATION

#### 13.1 Waste treatment methods

##### Product

The product has to be destroyed according to national or local legislation.

##### Removal contaminated packaging

Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully. In case of returned packing, the empty packing can be offered back to the supplier.

##### European list of waste products

XXXXXX - European waste product code. This code is assigned on the basis of the most current applications and can not be representative for pollutions which are arisen at the effective use of the product. The producer of the waste has to evaluate its process himself and has to grant the appropriate waste coding. See Decision 2001/118/EC.

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### 14. TRANSPORT INFORMATION

#### 14.1 UN number

-

#### 14.2 UN proper shipping name

-

#### 14.3 Transport hazard classe(s)

-

#### 14.4 Packing group

-

#### 14.5 Environmental hazards

-

#### 14.6 Special precautions for user

-

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

-

### 15. REGULATORY INFORMATION

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

Australian inventory (AICS): Listed in inventory.

Canadian inventory (DSL): Listed in inventory.

European inventory (EINECS): Listed in inventory.

Inventory of the United States (TSCA): Listed in inventory

#### Relevant EU Rule(s):

Decision 2001/118/EC of the Commission of 16 January 2001 amending Decision 2000/532/EC as regards the list of wastes.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/ 2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (Reach).

#### 15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out for the material.

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### 16. OTHER INFORMATION

This safety data sheet has been drawn up in accordance with Regulation (EU) No 453/2010.

This safety data sheet is exclusively made for industrial/professional use.

#### (EU)H-statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### List of abbreviations and acronyms

ADN:	(Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation interieur) : European agreement concerning the international carriage of dangerous goods by inland waterways
ADR:	(Accord européen relatif au transport international des marchandises Dangereuses par Route) : European agreement concerning the international carriage of dangerous goods by road
DNEL:	(Derived No Effect Level) : an estimated safe exposure level
EmS:	(Emergency Schedule) : the first code refers to the relevant fire schedule and the second code refers to the relevant spillage schedule
IMDG:	(International Maritime Dangerous Goods code)
MR:	(Molar Ratio)
NVCI:	National Poisoning Information Center
PBT:	persistent, bioaccumulative and toxic
PNEC	(Predicted No Effect Concentration) : concentration below which exposure to a substance is not expected to cause adverse effects
REACH:	Registration, Evaluation, Authorisation and restriction of Chemicals
vPvB:	very persistent and very bioaccumulative
WGK:	(Wassergefährdungsklasse) : a German classification of substances that indicate the environmental hazard for surface wate.

#### Further information

This version replaces all previous versions.

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