

#### SAFETY DATA SHEET

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006, CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

Stainflux

Issued: 2018-01-14



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

1.1. Product identifier

Trade name Stainflux

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

Use To be applied on the root side of welds to prevent oxidation

1.3. Details of the supplier of the safety data sheet

SDS created by TDS Team

Supplier ESAB DENTON

Street address 2800 Airport Road Denton, TX 76207

Telephone 1-800-372-2123

Email sdsrequest@esab.com

Web site www.esab.com

1.4 Emergency telephone number

Emergency phone number 1-800-372-2123

Available outside office hours No

#### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VI

Hazard statements H302, H332, H372

2.2. Lahel elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

Pictogram



Signal word Warning

Hazard statements

H302 Harmful if swallowed

H332 Harmful if inhaled. H372 Causes damage to organs through prolonged or repeated exposure

Precaution statements

P260 Do not breathe dust.

P261 Avoid breathing dust.

P262 Wash hands throughly after handling.

P270 Do no eat, drink or amoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P270 Wash protective gloves/protective citoriang/sey protection/face protection.

P301 P312 IF SWALLOWED. Call a POISON CENTER/doctor/physician If you feel unwell.

P301 P312 On SKIN, Wash with plenty of water/scap.

P304 P304 Do NSKIN, Wash with plenty of water/scap.

P314 Get medical advice/statement of you feel unwell.

P315 Specific treatment (see product documents and other cautions on this label).

P330 Rinse mouth.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to containers by lawful and apprpriate disposal methods.

2.3 Other hazards

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	R-phrase H-phrase
Quartz*	14808-60-7 238-878-4	35 - 45%	STOT RE 1	- H372
Calcium hydroxide	1305-62-0 215-137-3	25 - 35%	-	-
Titanium oxide**	13463-67-7 236-675-5	10 - 20%	:	-
Manganese oxide 1313-13-9 215-202-6		9 - 10%	- Acute Tox. 4 - oral	- H302, H332

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation Rinse

Rinse nose and mouth with water. Remove the person in fresh air and keep the person calm and warm in case of respiratory distress give artificial respiration, oxygen. Seek immediate medical attention/advice.

Skin contact
Gently wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
Seek immediate medical attention. If tritation persists, obtain medical assistance.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for several minutes. Get medical attention if irritation

Page 1 (11)

Page 2 (11)



SAFETY DATA SHEET
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amending EC No. 1907/2006, CLP directive 1272/2008,
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Refer to section 8/13

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Stainflux

Issued: 2018-01-14

Ingestion
Rinse mouth with water, Immediately give the injured a glass of milk or water. Do not induce vo
Let the injured rest, Immediately go to hospital (if possible show label or this information).

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

Inhalation Irritating to mucous membranes, nose and throat, and may cause cough. Prolonged and repeated inhalation of manganese may cause damage to the central nervous system.

SKIN CONTACT: Intensive pain and severe bilisters and sores. Diluted solutions can also cause seve coronary injury, however, without giving immediate pain. Sometimes pain only manifests after several hours when hydrofluoric acid penetrated into underlying tissues.

Eye contact EYE CONTACT: Splashes cause strong pain and corrosion. High risk of permanent visual impairment and blindness.

Ingestion Irritation and burning in the mouth and throat. May also cause burns with burning pain in the stomach.

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

Not applicable

# SECTION 5: Firefighting measures

5.1. Extinguishing media

5.3. Advice for firefighters

5.2. Special hazards arising from the substance or mixture

Special protective equipment for fire-fighters

Breathing apparatus with filter of type P3.

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective gloves, goggles and protective clothing. Ensure good ventilation or wear respiratory protection. Block risk area if possible. Breathing apparatus with filter of type P3.

6.2. Environmental precautions

Prevent discharges into drains, ditches or streams.

6.3. Methods and material for containment and cleaning up

Pick up spill mechanically. Clean without deploy dust. Avoid dry sweeping and use water or vacuum system to prevent formation or Rinse the contaminated area with plenty of water. Prevent incompatible substances (see section 10) to come into contact with the case of larger spillage / emissions, inform the Rescue Service.

6.4. Reference to other sections

# SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions Avoid direct contact or inhalation of the product. Do not eat, drink and smoke when using the product Opportunity for eye wash and emergency shower must be in the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Keep the containers well sealed and well vertilated. Store at room temperature. Keep the containers standing and inaccessible to unauthopersons. Prevent contact with incompatible substances (see section 10). Only use packages that are approved for the product. Shelf life of unopened packaging is 3 years.

7.3. Specific end use(s)

Not applicable

# SECTION 8: Exposure controls/personal protection

Exposure limits

Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits. The following limits can be used as guidance. Unless noted, all values are for 8 hour time veliphed everages (TWA).

National occupational exposure

Quartz* 1480 2 8-60-			Expos ure lim it mg/m 3-ppm		Short-ter m exposur e limit mg/m3-pp m		Ceiling e xposure i imit mg/m3-p pm		Remark	Source	Year
	238- 878- 4	-	-	-	-		-	30 mg/m3/%SiO2+2, Total du st; 10 mg/m3/%SiO2+2, Res pirable dust(quartz, tripoli)	OS HA	2017	
Calciu m hydr oxide	130 5-62- 0	215- 137- 3	15	-	-	-		-	total dust	OS HA	2017
Calciu m hydr oxide	130 5-62- 0	215- 137- 3	5	-	-	-			respirable fraction	OS HA	2017
Titaniu m oxid e**	1346 3-67- 7	236- 675- 5	15	-	-	-		-	Total dust	OS HA	2017
Manga nese o xide	131 3-13- 9	215- 202- 6	-	-	-	-	5	-	-	OS HA	2017

8.2. Exposure controls

Technical precaution measures

Keep the exposure at a low level through good ventilation and appropriate handling instructions

Mechanical ventilation or point extraction should be used. Eye shower and emergency shower shall be available at the workplace



#### SAFETY DATA SHEET

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Stainflux

Respiratory protection Breathing apparatus with filter of type P3.

Environmental exposure controls Prevent discharges into drains, ditches or streams.

2018-01-14



#### SAFETY DATA SHEET

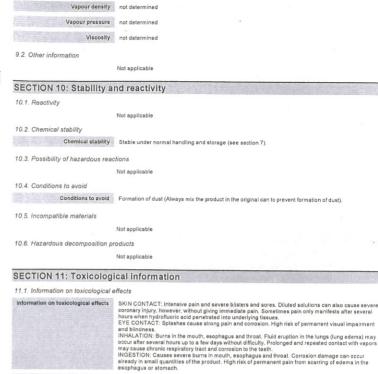
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Stainflux

Issued: 2018-01-14

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Protective clothing	Keep working place and protective clothing clean and dry. Check condition of protective clothing and equipment on a regular basis.				
SECTION 9: Physical an	d chemical properties				
9.1. Information on basic physical	and chemical properties				
Appearance	Grey powder				
Appearance, colour	Not applicable				
Appearance, physical state	Not applicable				
Auto-ignition temperature	Not self-igniting				
Decomposition temperature	not determined				
Evaporation rate	not determined				
Explosive properties	Not explosive				
Flammability (solid, gas)	Non-flammable				
Flash point	Not applicable				
initial boiling point and boiling range	Not applicable				
Melting point / freezing point	not determined				
Odour	odourless				
Odour treshold	not determined				
Oxidising properties	Not oxidizing				
Partition coefficient: n-octanol / water	Not applicable				
pH value	<10 (10 g/l)				
Relative density	Not applicable				
Solubility	Slightly soluble				
Upper / lower flammability or explosive limits	Not applicable				



Page 5 (11)

Page 6 (11)



Decay/transformation No data available

SAFETY DATA SHEET
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Stainflux

Issued: 2018-01-14



#### SAFETY DATA SHEET

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met.

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Stainflux

Issued: 2018-01-14

Respiratory/skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Genotoxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	*This product contains substance(s) that may cause cancer, which is/are classified as Carcinogenic to humans as per IARC.  *This product contains substance(s) that may cause cancer, which is/are classified as Possibly carcinogenic to humans as per IARC.
Repeated dose toxicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	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.
LD50 Oral	Calcium hydroxide:LD50, oral, rat: >2000 mg/kg; Titanium dioxide: LD50, oral, rat: >10000 mg/kg
LD50 Dermal	Calcium hydroxide: LD50, dermal, rat: >2500 mg/kg; Titanium dioxide: LD50, dermal, rat: >2500 mg/kg
LC50 Inhalation	Based on available data, the classification criteria are not met.

LD50 Dermal	Calcium hydroxide: LD50, dermal, rat: >2500 mg/kg; Titanium dioxide: LD50, dermal, rat: >2500 mg/kg			
LC50 Inhalation	Based on available data, the classification criteria are not met.			
SECTION 12: Ecologica	linformation			
12.1. Toxicity				
Acute toxicity	No data available			
Toxicity	Calcium hydroxide: LC50, fish, 96h: 457 mg/l, EC50, aquatic invertebrates, 48h: 49,1 mg/l, EC50, aquatic plants, 72h: 184,57 mg/l Irianium dioxide: LC50, fish, 48h: >1000 mg/l (uligdid)			
Aquatic	No data available			
Soil	No data available			
Acute fish toxicity	No data available			
Acute algae toxicity	No data available			
Acute crustacean toxicity	No data available			
Chronical toxicity	No data available			
12.2 Persistence and degradabilit	у			
Persistence and degradability	Criteria for biodegradability are not applicable to inorganic compounds.			



12.3. Bioaccumulative potential

Bloaccumulative potential No data available

12.4. Mobility in soil

Mobility No data available

12.5. Results of PBT and vPvB assessment

Results of PBT and VPVB | Product content is not expected to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

Other adverse effects No other adverse effects known

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Spill and residue of this product and contaminated packaging should be disposed of as hazardous waste. Waste from the product should not be allowed to contaminate soil or water, or release into the environment. Consult local authorities for information on waste management.

#### SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable



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#### SECTION 15: Regulatory information

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

th and environmental regulations/legislation specific for the substance or mixture

EU regulations.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning (EC) No 1907/2006 of the European Parliament and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (ECC) No 1987/393 and Commission Regulation (EC) No 1488/394 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/97/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1727/2006 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 6/7548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Commission Regulation (EU) 2015/330 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
DIRECTIVE 2008/98/EC of THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. of 19 November 2008, on waste and repealing certain Directives.

European Parliament and Louncil Directives.

Other regulations, limitations and legal regulations

ACT of 25 February 2011 on the chemical substances and their mixtures(OJ # 63, poz. 322).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz

The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments

Act of 13th June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item 888).

Regulation of the Minister of the Environment of 9 December 2014 on waste catalogue (Journal of Laws of 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005. Concerning essential requirements for personal protective equipment (Journal, Laws No. 259, item. 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (the Journal of Laws 2011, no. 33, item 166).

USA Regulations :

USA: This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)

CERCLA/SARA Title III Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs): Product is a solid solution in the form of a solid article. Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to your Local Emergency Planning Committee.

EPCRA/SARA Title III 313 Toxic Chemicals: The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weights of the section of the sec

Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Australian Inventory of Chemical Substances (AICS)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

Canadian Environmental Protection Act (CEPA): All constituent(s) of this product is/are on the Domestic Substance List (DSL).

15.2. Chemical safety assessment

Chemical safety assessment No data available

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

#### SECTION 16: Other information

Changes to previous revision This Safety Data Sheet has been revised due to modifications to Sections 1-16

Page 9 (11)

Page 10 (11)



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# References to key literature and data sources

Refer to ESAB "Welding and Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for Electric Welding and Cutting "and F2035" "Precautions and Safe Practices for Gas Welding, Cutting and Healing" available from ESAB, and to: www.esab.com

USA: Contact ESAB at www.esabna.com or 1-800 ESAB-123 if you have any questions about this SDS

OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superinte Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954

American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biologica Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

NFPA 51B "Standard for Fire Prevention During Welding, Cutting, and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169.

UK: WMA Publication 236 and 237, "Hazards from Welding Fume", "The arc welder at work, some general aspects of health and safety".

Germany: Unfallverhütungsvorschrift BGV D1, "Schweißen, Schneiden und verwandte Verfahren"

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting, and Allied Processes". This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1
H302 - Harmful if swallowed.
H332 - Harmful if inhaled.
H332 - Harmful if inhaled.

## Additional Information

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product a user should:
-notify its employees, agents and contractors of the information on this SDS and any product hazards/asfety information.
-furnish this same information to each of its customers for this product.
-request such customers to notify employees and customers for the same product hazards and safety information.

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