

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : FLUID SPRITZ
Revision date : 14.02.2018
Print date : 19.02.2018

Version (Revision) : 2.1.0 (2.0.0)

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

1.1 Product identifier

FLUID SPRITZ

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

Preparation for building and construction: inorganic liquid accelerator, for sprayed mixes (spritze-beton).

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

AZICHEM Srl

Street : Via G. Gentile, 16/A

Postal code/city : 46044 Goito (MN)

Telephone : +390376604185/604365

Telefax : +39 0376 604398

Information contact : info@azichem.com

1.4 Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

None

2.2 Label elements

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

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P303+P361+P353 IF ON SKIN (or hair): 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.

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

None

Further ingredients

SODIUM SILICATE Rm >= 3.2 ; REACH registration No. : 01-2119448725-31 ; EC No. : 215-687-4; CAS No. : 1344-09-8

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Weight fraction : $\geq 30 - < 40$ %

SECTION 4: First aid measures

4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In case of skin contact

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO₂) Water mist

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Remove persons to safety.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing.

For non-emergency personnel

Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

For cleaning up

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The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

6.4 Reference to other sections

Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See section 8.

Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	0,8 mg/kg
Limit value type :	DNEL Consumer (systemic) (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	1,38 mg/m ³
Limit value type :	DNEL Consumer (systemic) (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	0,8 mg/kg
Limit value type :	DNEL worker (systemic) (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route :	Dermal

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Exposure frequency : Long-term (repeated)
Limit value : 1,59 mg/kg
Limit value type : DNEL worker (systemic) (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 5,61 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Limit value : 7,5 mg/l
Limit value type : PNEC aquatic, intermittent release (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Limit value : 7,5 mg/l
Limit value type : PNEC aquatic, marine water (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Limit value : 1 mg/l
Limit value type : PNEC Secondary Poisoning (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Limit value : 348 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Limit value : 348 mg/l

8.2 Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment



When using do not eat, drink, smoke, sniff.

Eye/face protection

Safety glasses with side shields (EN 166).

Suitable eye protection

Eye glasses with side protection

Skin protection

Hand protection

Wear rubber gloves approved under standard EN374.

Respiratory protection

Not needed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Aspect			liquid
Colour			colorless to pale
Odour			none
Melting point/melting range :	(1013 hPa)	>	300 °C
Vapour density	((air = 1))		Data not available
freezing point		<	0 °C
Initial boiling point and boiling range :	(1013 hPa)	>	100 °C
Decomposition temperature :			No data available

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Self flammability		No data available
Flash point :	>	400 °C
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Product is not explosive
Vapour pressure	(20 °C)	2,2 hPa
Density :	(20 °C)	1,34 - 1,4 g/cm ³
Density :	(23 °C)	No data available
Water solubility :	(20 °C)	Soluble
pH :		10,5 - 12,5
Log Pow	(20 °C)	not applicable
Viscosity :	(20 °C)	60 - 260 mPa.s
Viscosity :	(23 °C)	No data available
Odour threshold		Data not available
Evaporation rate		Data not available
Oxidizing properties		Not oxidising

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Reaction with acid. Might react with metals.

10.2 Chemical stability

See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions

Reaction with acid. Might react with metals.

10.4 Conditions to avoid

If there is need for welded outside the vessel containing the solution of silicate to be careful to prevent electrolysis of the same. The circuits should be achieved without having inside screw threaded joints or valves immersed.

10.5 Incompatible materials

Acid, amphoteric metals (aluminum, zinc, etc), resin polyester;

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : LD50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg

Acute dermal toxicity

Parameter : LC50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Exposure route : Dermal
Species : Rat
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)

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Exposure route : Inhalation
Species : Rat
Effective dose : > 2,06 g/m³

Irritant and corrosive effects

Primary irritation to the skin

Not an irritant.

Irritation to eyes

Not an irritant.

Irritation to respiratory tract

Not an irritant.

Sensitisation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

There were no chronic effects or effects at low concentrations.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Brachydanio rerio (zebra-fish)
Effective dose : 1108 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 260 - 310 mg/l
Exposure time : 96 h
Parameter : EC0 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Chronic (long-term) fish toxicity
Effective dose : 207 mg/l
Parameter : NOEC (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Brachydanio rerio (zebra-fish)
Effective dose : 348 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Daphnia magna (Big water flea)
Effective dose : 1700 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : EC50 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Scenedesmus subspicatus
Effective dose : 207 mg/l
Exposure time : 72 h
Parameter : EC0 (SODIUM SILICATE Rm >= 3.2 ; CAS No. : 1344-09-8)
Species : Chronic (long-term) algae toxicity
Effective dose : 35 mg/l

12.2 Persistence and degradability

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No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Dispose according to legislation.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) 1907/2006 (REACH).

Regulation (EC) No 1272/2008 (CLP).

Regulation (EU) 2015/830 requirements for the compilation of safety data sheets.

Amendings, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008: Commission Regulation (EC) No 790/2009 (I ATP). Commission Regulation (EU) No 286/2011 (II ATP). Commission Regulation (EU) No 618/2012 (III ATP). Commission Regulation (EU) No 487/2013 (IV ATP). Commission Regulation (EU) No 944/2013 (V ATP). Commission Regulation (EU) No 605/2014 (VI ATP). Commission Regulation (EU) No 1297/2014 (VII ATP). Commission Regulation (EU) No 2015/1221 (VIII ATP).

Other regulations (EU)

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Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List

None

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 07. Hints on joint storage - Storage class · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR)

16.2 Abbreviations and acronyms

LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
AwSV.:	Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV))
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified

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BOD: Biochemical Oxygen Demand
COD: Chemical Oxygen Demand
BCF: BioConcentration Factor
TRGS : Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo: Lethal Concentration Low (La minima concentrazione letale)
ThOD: Theoretical Oxygen Demand

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

calculated.

16.5 Relevant H- and EUH-phrases (Number and full text)

None

16.6 Training advice

None

16.7 Additional information

None

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.
