

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : STICK PROTECT

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Tablet contained within a fire extinguishing device  
For industrial/occupational use only

#### 1.4. Supplier's details

SAVIO SPA  
via Torino, n. 25  
10050 Chiusa San Michele – TORINO  
ITALY  
T +39 011 9643464

#### 1.5. Emergency phone number

Emergency number : +39 011 9643464

### SECTION 2: Hazard identification

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

##### Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity – Repeated exposure, Category 2	H373

Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN) :

Danger

Hazardous ingredients

Potassium nitrate; Strontium nitrate; Formaldehyde, oligomeric reaction products with phenol; Melamine

Hazard statements (GHS UN) :

H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS UN) :

P203 - Obtain, read and follow all safety instructions before use.  
P260 - Do not breathe dust.  
Wash hands thoroughly after handling  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P333+P317 - If skin irritation or rash occurs: Get medical help.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

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P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P318 - IF exposed or concerned, get medical advice.

P405 - Store locked up.

P501 - Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Potassium nitrate	CAS-No.: 7757-79-1	40 – 45	Ox. Sol. 3, H272
Strontium nitrate	CAS-No.: 10042-76-9	30 – 35	Ox. Sol. 1, H271 Eye Dam. 1, H318
Formaldehyde, oligomeric reaction products with phenol	CAS-No.: 9003-35-4	10 – 15	Eye Irrit. 2, H319 Skin Sens. 1, H317
Melamine	CAS-No.: 108-78-1	8 – 10	Carc. 2, H351 STOT RE 2, H373

Full text of H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: If dust are formed : Causes serious eye damage.
Symptoms/effects after ingestion	: None under normal conditions. Ingestion may cause nausea and vomiting.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, or water spray or regular foam.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : No fire hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Potassium oxide. Strontium oxide. Ammonia. Amines.

#### 5.3. Special protective actions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use extinguishing media appropriate for surrounding fire. Move containers from fire area if it can be done without personal risk. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

- General measures : Avoid breathing dust. Avoid contact with eyes, skin and clothing. Absorb spillage to prevent material damage. Notify authorities if product enters sewers or public waters.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. Only qualified personnel equipped with suitable protective equipment may intervene. Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. Prevent other non-emergency personnel from entering the danger area.

##### 6.1.2. For emergency responders

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Remove all sources of ignition. Do not touch spilled material.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.  
Methods for cleaning up : Mechanically recover the product. Do not touch or walk on the spilled product. Contaminated absorbent material may pose the same hazard as the spilt product. Clean contaminated surfaces with an excess of water. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Protect from sunlight. Keep only in original container. Keep away from ignition sources.
- Incompatible materials : Combustible materials. Flammable material. Strong acids. Strong reducing agents. Strong oxidizing agents.
- Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

- Hand protection : Wear protective gloves. Wear suitable gloves resistant to chemical penetration
- Eye protection : Chemical goggles
- Skin and body protection : Long sleeved protective clothing. Wear foot protection
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Type P1, Type P2, Type P3		

#### Personal protective equipment symbol(s)



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

- Physical state : Solid
- Appearance : Tablets
- Colour : Yellow.
- Odour : Not available
- Odour threshold : Not available
- Melting point : Not available
- Freezing point : Not applicable
- Boiling point : Not available
- Flammability : Non flammable.
- Lower explosion limit : Not applicable
- Upper explosion limit : Not applicable
- Flash point : Not applicable
- Auto-ignition temperature : Not applicable
- Decomposition temperature : Not available

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pH	: 6.84
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not applicable
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.65 g/ml
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Solubility	: Water: 84.2 g/l
Particle size	: D10: 13 µm D50: 43.1 µm D90: 302 µm Method: ISO 13320: 2020

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive limits	: Not applicable
Oxidising properties	: Test O.1 Test for oxidizing solids. Not oxidising

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

Incompatible materials.

### 10.5. Incompatible materials

Combustible materials. Flammable material. Strong reducing agents. Oxidizing agents. Acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Nitrogen oxides. Potassium oxides. Strontium oxide. Amines. Ammonia.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

<b>Potassium nitrate (7757-79-1)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg bodyweight
LC50 Inhalation - Rat	> 0.527 mg/l air
<b>Strontium nitrate (10042-76-9)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight

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<b>Formaldehyde, oligomeric reaction products with phenol (9003-35-4)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5 mg/l air
<b>Melamine (108-78-1)</b>	
LC50 Inhalation - Rat	> 5.19 mg/l air
Skin corrosion/irritation	: Not classified pH: 6.84
<b>Strontium nitrate (10042-76-9)</b>	
Human Skin Model (HSM) test	Not irritating
<b>Formaldehyde, oligomeric reaction products with phenol (9003-35-4)</b>	
Human Skin Model (HSM) test	Not irritating
Serious eye damage/irritation	: Causes serious eye damage. pH: 6.84
<b>Strontium nitrate (10042-76-9)</b>	
Serious eye damage/irritation, rabbit	Corrosive
<b>Formaldehyde, oligomeric reaction products with phenol (9003-35-4)</b>	
Serious eye damage/irritation, rabbit	Irritating to eyes
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
<b>Strontium nitrate (10042-76-9)</b>	
Additional information	No sensitizing reaction was observed for guinea pigs
<b>Formaldehyde, oligomeric reaction products with phenol (9003-35-4)</b>	
Patch test, human	Sensitizer
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>Potassium nitrate (7757-79-1)</b>	
NOAEL (oral, rat, 90 days)	≥ 1500 mg/kg bodyweight
<b>Strontium nitrate (10042-76-9)</b>	
LOAEL (oral, rat, 90 days)	49.6 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	12.4 mg/kg bodyweight
<b>Formaldehyde, oligomeric reaction products with phenol (9003-35-4)</b>	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight
<b>Melamine (108-78-1)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
<b>STICK PROTECT</b>	
Viscosity, kinematic	Not applicable

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<b>Potassium nitrate (7757-79-1)</b>	
LC50 - Fish [1]	1378 mg/l
EC50 - Crustacea [1]	490 mg/l

  

<b>Strontium nitrate (10042-76-9)</b>	
LC50 - Fish [1]	> 97.45 mg/l
LC50 - Fish [2]	> 40.3 mg/l
EC50 72h - Algae [1]	> 43.3 mg/l
EC50 72h - Algae [2]	> 104.7 mg/l
NOEC chronic fish	≥ 100 mg/l

  

<b>Melamine (108-78-1)</b>	
LC50 - Fish [1]	> 3000 mg/l
EC50 - Crustacea [1]	200 mg/l
EC50 96h - Algae [1]	325 mg/l
LOEC (chronic)	> 11 mg/l
NOEC (chronic)	≥ 11 mg/l
NOEC chronic fish	≥ 5.1 mg/l

#### 12.2. Persistence and degradability

<b>STICK PROTECT</b>	
Persistence and degradability	Not established.

  

<b>Potassium nitrate (7757-79-1)</b>	
Persistence and degradability	Not available.

  

<b>Strontium nitrate (10042-76-9)</b>	
Persistence and degradability	Not available.

  

<b>Formaldehyde, oligomeric reaction products with phenol (9003-35-4)</b>	
Persistence and degradability	>60 % biodegradation Not rapidly degradable.

  

<b>Melamine (108-78-1)</b>	
Persistence and degradability	<10 % biodegradation Not rapidly degradable.

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

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### 12.4. Mobility in soil

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Mobility in soil	No additional information available
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### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. Refer to all applicable national, international and local regulations or provisions.  
Ecological information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. UN Proper Shipping Name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

### 14.6. Special precautions for user

**UN RTDG**  
Not regulated

**IMDG**  
Not regulated

**IATA**  
Not regulated

### 14.7. Transport in bulk according to IMO instruments

Not applicable



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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

### SECTION 16: Other information

Issue date : 5/16/2024

Full text of H-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 1	Oxidising Solids, Category 1
Ox. Sol. 3	Oxidising Solids, Category 3
H271	May cause fire or explosion; strong oxidiser
H272	May intensify fire; oxidiser
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.