SP SMOKE PELLET

Safety Data Sheet

Revision date: April 23, 2018
replaces all previous editions

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name SP SMOKE PELLET

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

Use A smoke generation pellet for the marking of airflows, and for theatrical or special effects – **for Professional Use ONLY**.

1.3 Details of the supplier of the safety data sheet

Supplier Superior Signal Company LLC
P.O. Box 96, Spotswood, NJ, USA

Phone 732-251-0800
Fax 732-251-9442
Email info@superiorsignal.com

1.4 Emergency telephone number

Emergency number 732-251-0800

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.
Acute toxicity: Category 4
H302 Harmful if swallowed.
Skin sensitisation: Category 1
H317 May cause an allergic skin reaction.
Eye irritation: Category 2
H319 Causes serious eye irritation.
Specific target organ toxicity - single exposure: Category 3
H335 May cause respiratory irritation.
Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.
Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

Classification accordind to EU Directives 67/548/EEC or 1999/45/EC
Xn Harmful, R22
Xi Irritant, R36/37
N Dangerous for the environment, R50/53

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required:

Hazardous components which must be listed on the label:
• Guanidine Nitrate
• Potassium chlorate



H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.

2.3 Other hazards
Ignites readily. Product burns without a flame to give a dense white harmful smoke.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature
Smoke pellet

Hazardous components
R-phrase(s) according to EC directive 67/548/EEC
Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	Concentration [%]
Guanidine nitrate	506-93-4 208-060-1		Ox sol.3, H272 Acute tox.4, H302 Skin irri. 2, H315 Eye irr. 2, H319 Specific target organ tox. - single exposure.3, H335	> 2.50 - < 25.00
Potassium Chlorate	3811-04-9 223-289-7	O; R 9 Xn; R20/22 N; R51/53	Ox. Sol. 1, H271 Acute Tox. 4, H332 Acute Tox. 4, H302 Aquatic Chronic 2, H411	> 2.50 - < 25.00

Further information
For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire.
Contains potassium chlorate which is classified as an oxidising agent.

5.3 Advice for firefighters

Special protective equipment for fire-fighters
In the event of fire, wear self-contained breathing apparatus.

Further information
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by diking area with sand or earth.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak.
Avoid dust formation.
Avoid contact with spilled product or contaminated surfaces.
When dealing with a spillage do not eat, drink or smoke.

6.2 Environmental precautions
Do not allow to get into surface water, drains and ground water.
If spillage enters drains leading to sewage works inform local water company immediately.
If spillage enters rivers or watercourses, notify authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up
The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Clean contaminated floors and objects thoroughly, observing environmental regulations. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Additional advice
Check also for any local site procedures.

6.4 Reference to other sections
Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling
No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
Avoid dust formation.
Ensure adequate ventilation.

Advice on protection against fire and explosion
Dust may form explosive mixture in air.

Hygiene measures
When using, do not eat, drink or smoke.
Remove soiled clothing immediately and clean thoroughly before using again.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Wash hands immediately after work, if necessary take a shower.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers
Store in a place accessible by authorized persons only.
Keep away from direct sunlight.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage: Keep away from food, drink and animal feedingstuffs.

Suitable materials: Polyethylene film within an outer package

7.3 Specific end uses
Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ammonium chloride	12125-02-9	TWA	10 mg/m3	UK. EH40 WEL - Workplace Exposure Limits

8.2 Exposure controls

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Personal protective equipment: In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection: Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection: Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection: Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection: Wear standard coverall and type 4 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Colour:	Off-white.
Physical State:	Compressed pellet.
Odour:	Odourless
Melting Point:	Not applicable.
Boiling point:	Not applicable.
Flash-Point:	Does not flash.
Autoignition temperature	Not available.
Minimum Ignition temp.	>130 °C
Minimum Ignition:	Not available
Oxidizing properties:	Oxidising agent; may assist combustion.
Energy Explosive properties	Not applicable
Vapour pressure:	Not available.
Solubility:	Partly soluble in/with water.
pH-value (quant.):	Not available.

Partition coeff. (n-octanol/water):	Not applicable
Density:	Not available.

9.2 Other information
Further safety related physical-chemical data are not known

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Stable under normal conditions.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid
Extremes of temperature and direct sunlight.
Heat, flames and sparks.

10.5 Incompatible materials
Store only in the original container.

10.6 Hazardous decomposition products
No decomposition products expected under normal conditions of use

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - 730 mg/kg
Remarks: Behavioural: Altered sleep time (including change in righting reflex). Behavioural: Muscle contraction or spasticity. Behavioural: Irritability.

Skin corrosion/irritation
Skin - rabbit
Result: Severe skin irritation

Serious eye damage/eye irritation
Moderate eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Un-burned composition is non-selectively toxic to plants

12.2 Persistence and degradability
Not readily biodegradable

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Harmful to aquatic organisms

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.
Can be land filled or incinerated, when in compliance with local regulations.
Advice may be obtained from local waste regulation authority (part of the Environment Agency in the UK)

Contaminated Packaging: packaging that cannot be cleaned should be disposed of as product waste. Empty containers can be land filled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

SECTION 14: TRANSPORT INFORMATION

Rail / Road (RID / ADR)	Class	UN Number	Packaging Group	Kemmler Index	
Proper Shipping Name	Not subject to the provisions of ADR				
Sea (IMDG-Code)	Class	UN Number	Packaging Group	EMS	MFAG
Proper Shipping Name Marine pollutant	Non Hazardous No				
Air (ICAO / IATA)	Class	UN Number	Packaging Group		
Proper Shipping Name	Not restricted				

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Further information WHO-classification: III (Slightly hazardous)

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3
R20/22 Harmful by inhalation and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of the hazard statements mentioned in Section 3
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.