

Document No: **SRT-MSDS-IPS1** Page: 1 (5)
Revision Date: 18/04/2019 Inspected by: M.Döring
Version: 7.0 / EN Approved by: Technical Control Group

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Product Identification

Trade Name: Salgromatic ® Fire Systems - **STORMEX**
Model Series: ImpulseDPS and TorrentDPS

1.2 Relevant Identified Uses of the Substance / Mixture / Product

Description / intended Uses: Dry chemical powder fire suppression system for professional and special risk applications. * See section 2.1.

1.3 Safety Data Sheet Supplier Details

Importer in the EU: Salgrom Technologies, Inc.
Postal Address: P.O.Box 333
Postal Code, City and Country: FI-90101 Oulu, FINLAND
Internet: www.salgrom.com
E-mail: info@salgrom.com
Business ID (VAT/Tax): 2408755-0 (FI24087550)

1.4 Emergency Telephone Number

112 (Europe) * See your country specific emergency contact(s).

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Dry chemical fire extinguishing agent (fire suppressant) and gas-generating discharge compound.

2.2 Label Elements and Hazard and Precautionary Phrases

H332: Harmful if inhaled (*the end product)
H302: Harmful if swallowed
H335: May cause respiratory irritation (*the end product)

P210: Keep away from sources of ignition
P201: Obtain special instructions before use
P102: Keep out of the reach of children
P402: Store in a dry place



2.3 Other Hazards

* See section 11.

Document No: **SRT-MSDS-IPS1**
Revision Date: 18/04/2019
Version: 7.0 / EN

Page: 2 (5)
Inspected by: M.Döring
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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Main Ingredients (Extinguishing powder)	Ammonium sulphate	CAS-Number	7783-20-2
	Ammonium phosphate		7722-76-1
Main Ingredients (Ignitor / actuator element)	Potassium Nitrate	CAS-Number	7757-79-1
	Phenol-Formaldehyde Resin		9003-35-4

* This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory. All ingredients in this product have not been verified for EINECS listing or the European List of New Chemical Substances (ELINCS).

3.2 Description / Name of Composition

Vekson ABC-type Hydrophobized Dry Chemical Powder

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Remove to fresh air. If not breathing, apply artificial respiration. Oxygen may be given, but only under supervision of a trained person. Transport to hospital or doctor if necessary.

4.2 Most Important Symptoms and Effects

Irritation of mucous membrane, headache and dry cough.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Take measures usual for the inhalation of extinguishing powder / dust.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

All known extinguishing substances can be used. Dry powder is extinguishant in its self.

5.2 Special Hazards Arising from the Substance or Mixture

Inhalation of extinguishing powder / dust formed by the system discharge.

Document No: **SRT-MSDS-IPS1** Page: 3 (5)
Revision Date: 18/04/2019 Inspected by: M.Döring
Version: 7.0 / EN Approved by: Technical Control Group

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

If exposure to extinguishing powder is possible, people will have to be moved in safe.
Ventilate the rooms and areas, where the powder agent may have been entered.

6.2 Environmental Precautions

No necessary measures required. Rinse the affected area with water.

6.3 Methods and Material for Containment and Clean-Up

No necessary measures required. Possible remains and debris of fire extinguishing powder can be removed by airflow, ventilating, vacuuming or by traditional cleaning methods.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Keep away from ignition sources. No smoking. No other handling measures or precautions.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in air-conditioned warehouse, away from heaters and sunlight.
Storage temperature -50...+65°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

If it's necessary to enter in dry powder filled space, wear safety goggles and respiratory mask or other appropriate protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance	Solid and odourless chemical powder inside the metal cylinder
Particle Size	5 – 15 Microns
PH	Not Specified
Flammability	Has Not
Flash Point	Has Not
Relative Density	Not in Use
Water Solubility	Slight
Fat Solubility	Not Soluble
Vapour Density (Air = 1)	Heavier Than Air
Vapour Pressure	Not Applicable

Document No: **SRT-MSDS-IPS1**
Revision Date: 18/04/2019
Version: 7.0 / EN

Page: 4 (5)
Inspected by: M.Döring
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SECTION 10: STABILITY AND REACTIVITY

10.1 Conditions to Avoid

Heat, flames and sparks. Very high temperatures and direct sunlight. Fire extinguishing powder is not recommended without preliminary testing for extinguishing fires which are due to certain chemicals or mixtures of chemicals, such as cellulose nitrate, reactive metals such as sodium, potassium, magnesium, titanium, zirconium, uranium, plutonium, metal hybrids, metal amides, certain organic peroxides and hydrazine, white phosphorus, organometallic compounds, or fluorine.

10.2 Hazardous Decomposition Products / Composition of Extinguishing Powder

Ammonia and phosphoric oxide can develop at high temperatures or heat.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Skin Corrosion / Irritation

May cause slight local irritation together with moisture.

Eye Damage / Irritation

May cause slight irritation of mucous membranes.

Respiratory or Skin Sensitisation

May cause irritation of upper respiratory track and cough.

Other Information

Does not deplete oxygen.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Totally non-toxic and non-harmless to the environment. No environmental impact.
ODP=0 (no effect to ozone layer) GWP=0 (no effect to global warming)
ALT=0 / Negligible (no atmospheric lifetime)

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio Accumulation

No relevant studies identified.

Eco Toxicity

No relevant studies identified.

Document No: **SRT-MSDS-IPS1** Page: 5 (5)
Revision Date: 18/04/2019 Inspected by: M.Döring
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Used materials can be recycled normally - no special methods are required. Out-dated or unused extinguishing units must be disposed according to local/national hazardous waste regulations.

SECTION 14: PACKING AND SHIPPING INFORMATION

14.1 General and Non-DGR Statement

The product is not classified as dangerous goods and is not subject to DGR-IATA / ADR /RID procedure. The product is stable, non-reactive and not under pressure and can be transported by all cargo forms. * No known transport restrictions.

Evaluation of the technical characteristics of the actual product and its supportive elements thermal actuators (ATAC cords) and electrical actuators (EID ignitors) manufacturer declares that these products does not belong to bluster agents and are not registered in the balance sheets of production, distribution and application of any explosive or unstable materials.

Further confirming that the materials and chemical compounds involved with Salgromatic Fire Suppression Products cannot be categorized or handled in/under DGR regulations as their self-ignition temperatures remain under common solid construction materials and remain stable in all naturally occurring environmental conditions and in the temperatures range of -80...+400°C.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations or Legislation Specific for the Product

BS EN 481:1993 & BS EN 451:1993.
CoSHH supportive documents EH40/98 & EH44 and MDHS 14/2

SECTION 16: ADDITIONAL INFORMATION

16.1 Source and Document Use

Salgrom Technologies, Inc. - Copying licensed for internal and regulatory use only.

16.2 Restrictions on Marketing and Export

None (Refer to any other national measures that may be relevant)
No known customs restrictions. Customs Tariff Code: **8424100000**

16.3 Disclaimer

* The information contained herein is based on data believed to be accurate. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for its own particular application, use and/or purpose. Salgrom Technologies Inc. assumes no responsibility for personal injury or property damage resulting from use, handling or from contact with this product.