

## SAFETY DATA SHEET (SDS)

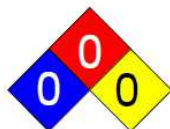
OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev04.

### Section 1 – Product and Company Identification

- **Trade name:** BanFire Fire Retardant Spray
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description** - Fire retardant saturant for fabrics and similar absorbent materials. Non Hazardous – Non Toxic – Environment Safe – Water Based
- **Details of the supplier of the safety data sheet**
- **Manufactured by**  
RDR Technologies, LLC  
835 SE 30<sup>th</sup>, Suite C  
Oklahoma City, OK 73129  
(405) 702-0055  
fax 855-226-5959
- **Emergency telephone number:** (405) 702-0055

### Section 2 – Hazards Identification

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Precautionary statements** Precautionary statements
  - **Classification system:** NFPA/HMIS Definitions:  
0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
  - **NFPA ratings** (scale 0 – 4)



Health = 0  
Fire = 0  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### ***Section 3 Composition/information on ingredients***

- **Proprietary NON – HAZARDOUS CHEMICALS**
  - 7732-18-5: water, distilled, conductivity or of similar purity
  - Trade Secret per 29 CFR 1910.1200
- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous Components:** None

### ***Section 4 - First Aid Measures***

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

### ***Section 5 Firefighting measures***

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### ***Section 6 Accidental Release Measures***

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **Section 7 Handling and Storage**

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

## **Section 8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**

**7664-38-2 phosphoric acid 75%**

PEL 1 mg/m<sup>3</sup>

REL Short-term value: 3 mg/m<sup>3</sup> Long-term value: 1 mg/m<sup>3</sup>

TLV Short-term value: 3 mg/m<sup>3</sup> Long-term value: 1 mg/m<sup>3</sup>

WEEL N/A

**57-13-6 Urea**

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

- **Breathing equipment:** Not required.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling.

## **Section 9 – Physical/Chemical Properties**

- **General Information**
  - **Appearance**
    - **Form** – Liquid
    - **Color** – Clear
  - **Odor** – Odorless
  - **Odor Threshold** – not determined
  - **pH Value** – approx. 6.5-7.0
  - **Change in condition**
    - **Melting point/Melting range** - ~32°F
    - **Boiling Point/Boiling range** – 212°F
  - **Flash Point** – not applicable
  - **Flammability** – not applicable
- **Ignition temperature:**
  - Decomposition temperature: Not determined
- **Auto igniting:** Product is not self-igniting
- **Danger of explosion:** product does not present explosion hazard
- **Explosion limits: not determined**
  - **Upper:** not determined
  - **Lower:** not determined
- **Vapor Density** – not determined
- **Evaporation rate** – not determined
- **Solubility in Water** – no miscible or difficult to mix
- **Partition coefficient (n-octanol/water)** - Not determined
- **Viscosity**
  - **Dynamic** – not determined
  - **Kinematic** – not determined
- **Solvent content**
  - **Organic solvents** – 0.0%
  - **Water** – 80%
  - **Solids content** – 8%
- **Other information:** no further relevant information available

## **10 – Stability and Reactivity**

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## **11 – Toxicological Information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic Categories**
  - IARC (International Agency for Research on Cancer): none of the ingredients is listed
  - NTP (National Toxicological Program: None of the ingredients is listed

## **12 – Ecological information**

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Bio-accumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects** No further relevant information available.

## **13 - Disposal considerations**

- **Waste treatment methods:** Recommendation: Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:** Recommendation: Disposal must be made according to official regulations.

## **14 - Transport information**

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA:** Void
- **UN proper shipping name:** None

- **DOT, ADR, ADN, IMDG, IATA:** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class:** Void
- **Packing group:** N/A
- **DOT, ADR, IMDG, IATA:** Void
- **Environmental hazards:**
  - **Marine pollutant:** No
- **Special precautions for user:** Not applicable
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:**  
Not applicable
- **UN 'Model Regulation' -**

## **15 – Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - SARA
  - Section 355 (extremely hazardous substances): None of the ingredients is listed
  - Section 313 (Specific toxic chemical listings): None of the ingredients is listed
  - TSCA (Toxic Substances Control Act): None of the ingredients is listed
  - 7732-18-5 : water, distilled, conductivity or of similar purity
- **Proposition 65**
  - Chemicals known to cause cancer: None of the ingredients is listed
  - Chemicals known to cause reproductive toxicity in females: None of the ingredients is listed
  - Chemicals known to cause reproductive toxicity in males: None of the ingredients is listed
  - Chemicals known to cause developmental toxicity: None of the ingredients is listed
- **Carcinogenic categories**
  - EPA (Environmental Protection Agency): None of the ingredients is listed
  - TLV (Threshold Limit Value): None of the ingredients is listed
  - NIOSH-Ca: None of the ingredients is listed
  - OSHA-Ca: None of the ingredients is listed
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## **16 – Other Information**

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- Abbreviations and acronyms:

## RDR TECHNOLOGIES, LLC - BANFIRE FIRE RETARDANT SPRAY - SDS

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation IATA:  
International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)
- SDS / MSDS Created by RDR Technologies, LLC