

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 26.05.2008

Revision: 23.05.2008

1 Identification of substance *

- **Product details**
- **Trade name:** FIRE RETARDANT SPRAY
- **Application of the substance / the preparation** Flame retardant for textile application
- **Manufacturer/Supplier:**
KBT Ltd 132 Saltley Road Saltley Birmingham B7 4TH

2 Hazards Identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment** void
- **Classification system**
The product does not have to be classified and labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
Flame retardant based on organic and inorganic phosphorous and nitrogen compounds.
- **Dangerous components:** None

4 First aid measures *

- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Wash immediately with plenty of water and soap and rinse thoroughly.
- **After eye contact:** Rinse eyes thoroughly with plenty of water for at least 10 minutes while holding eyelids open. If symptoms persist, consult a physician.
- **After swallowing:** Rinse out mouth and then drink plenty of water. Seek medical treatment.

5 Fire fighting measures *

- **Suitable extinguishing agents:** Product is non combustible. Use fire fighting measures that suit the environment.
- **Unsuitable extinguishing agents for reasons of safety:** None
- **Special hazards caused by the material, its products of combustion or flue gases:**
Can be released in case of fire:

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Nitrogen oxides (NO_x)
Phosphoric oxides (P_xO_y)

- **Protective equipment:** Wear self- contained breathing apparatus.

6 Accidental release measures

- **Personal safety precautions:** Wear protective clothing (see item 8).
- **Measures for environmental protection:** Do not allow product to enter waters without treatment in a (biological) water treatment plant.
- **Measures for cleaning/ collecting:** Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.
Suitable binder: multi- purpose absorbent.
Smaller amounts of contaminated binding material can be disposed of together with usual household waste.

7 Handling and storage: *

- **Handling**
- **Information for safe handling:** Ensure good exhaust ventilation at the workplace.
Compliance with the minimum requirements designed to guarantee a better standard of safety and health at work is essential to ensure the safety and health of workers.
- **Information about protection against explosion and fire:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** Keep containers tightly sealed.
- **Information about storage in a common storage facility:** None
- **Further information about storage conditions:** None

8 Exposure controls and personal protection: *

- **Additional information about design of technical systems:** No further data: see item 7.
- **Components with critical values that require monitoring at the workplace:** None established.

Additional Occupational Exposure Limit Values for possible hazards during processing:**7664- 41- 7 ammonia**

WEL (Great Britain)	Short- term value: 25mg/ m ³ , 35 ppm Long- term value: 18mg/ m ³ , 25 ppm
IOELV (European Union)	Short- term value: 36mg/ m ³ , 50 ppm Long- term value: 14mg/ m ³ , 20 ppm

- **Additional information:** Information valid at the time of review of safety data sheet.
- **Personal protective equipment**
- **General protective and hygienic measures:**
- Use skin cream for skin protection.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Wash hands during work breaks and at the end of the shift.

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- **Respiratory protection:** Respiratory protection is recommended in example substance concentrations exceeding the air limiting value.

Filter type K for ammonia

Filter A/P 2.

- **Protection of hands:**



Chemical protective gloves according to DIN EN 374 with CE- labeling.

After use of gloves apply skin- cleaning agents and skin cosmetics.

- **Material gloves:** Nitrile rubber, NBR
- **Gloves made of the following materials are not suitable:**
Gloves for mechanical protection do not provide protection against chemicals.
- **Eye protection:**



Hoder/ temple spectacles with side protection.

- **Body protection:** Protective clothing.

9 Physical and chemical properties:

- **General information**

Form:	Liquid
Colour:	Colourless
	Clear
Odour:	Light
- **Change in condition**

Melting point/ Melting range:	Not applicable
Boiling point/ Boiling range:	ca. 100°C
- **Flash point:** Not applicable
- **Self- inflammability:** Product is not self- igniting
- **Danger of exposition:** Product is not explosive
- **Vapour pressure at 20°C:** 23 mbar
- **Density at 20°C:** 1.20 ± 0.05 g/cm³
- **Solubility in/ Miscibility with Water:** Fully miscible
- **pH- value at 20°C:** 4.5 ± 0.5

10 Stability and reactivity *

- **Conditions to be avoided:**
- **Minimum shelf life:** 24 months from production date.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous products of decomposition:** None, if storage and handling is done according to specification.

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11 Toxicological information

- **Acute toxicity:**
- **LD/ LC50 values that are relevant for classification:** Product, oral : >2000mg/ kg rat (calculated).
- **Primary irritant effect:**
- **On the skin:** No irritant effect.
- **On the eye:** No irritant effect.
- **Sensitization:** No sensitising effect known.

12 Ecological information: *

- **Information about elimination (persistence and degradability):**
- **Other information:** In waste water treatment plants the ingredients may be eliminated biologically and chemically/ physically to > 90%. Iron (III) chloride (FeCl₃) or calcium hydroxide suspension (Ca (OH) ₂) may be used as precipitating agent.
- **Ecotoxicological effects:**
- **Aquatic toxicity:**
- **Type of test Effective concentration Method Assessment**
Fish toxicity: LC 50 12200 mg/l, Leuciscus Idus/ OECD 203, 96 hrs
- **Behaviour in sewage processing plants:**
- **Type of test Effective concentration Method Assessment**
Bacteria toxicity: EC50 > 1000 mg/l, DIN 38412/ 8
- **Remark:** If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.
- **Additional ecological information:**
- **COD- value:** Not applicable
- **BOD5- value:** Not applicable
- **nitrogen content:** 11.3%, established as N
- **phosphorus content:** 7.8%, established as P
- **AOX- indication:** The product does not contain substances, which can influence the AOX of waste water.
- **The formulation contains the following heavy metals and compounds according to Directive 2006/ 11/ EC:** The product does not contain any heavy metals.

13 Disposal considerations:

- **Product:**
- **Recommendation**
Can be disposed with household garbage with prior chemical- physical or biological treatment following consultations with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

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• European waste catalogue	
04 00 00	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02 00	Wastes from the textile industry
04 02 15	Wastes from finishing other than those mentioned in 04 02 14

- **Contaminated packaging:**
- **Recommendation:** Packaging can be reused or recycled after cleaning.
- **Recommend cleaning agent:** Water, if necessary with cleaning agent

14 Transport information:

- **Land transport ADR/RID (cross- border/ domestic):**
- **ADR/ RID/ ADG (Austria) Class:** -
- **Maritime transport IMDG/ GGVSea:**
- **IMDG Class:** -
- **Air transport ICAO- TI and IATA- DGR:**
- **ICAO/ IATA Class:** -
- **Transport / additional information:** Not hazardous for transport according to a.m. regulations.

15 Regulatory information *

- **Designation according to EC guidelines:** The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" 199/ 45/ EC.
- **National regulations**
- **Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH).**
Not listed in the COMAH regulation.

16 Other information: *

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally contractual relationship.

- **Training hints**
Further information regarding the directions for use can be found in the Product Data Sheet.
- **Department issuing data specification sheet:** Technical Department.
- * **Data altered since the previous version.**