



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

PRODUCT NAME: INTUMESCENT PAINT UNIVERSAL KS 1

USE: White fire resistant paint, dilutable with water, which will be painted on electrical cables in order to delay the time for short circuit at a possible fire.

SUPPLIER: ESSVE PRODUKTER AB, Box 770, 191 27 Sollentuna, Sweden.
Internet: www.fireseal.se

CONTACT: Dick Johansson, tel. +46 (0)8 623 61 00

EMERGENCY PHONE: If acute emergency dial: tel. 112
More information: Swedish Poisons Information Centre tel.+46 (0)8 33 12 31

2. COMPOSITION/ INFORMATION ON INGREDIENTS/CLASSIFICATION OF SUBSTANCES

Substance	EG No	CAS No.	Percentage %	Classification; Risk-phrases*
Isodecyldiphenylphosphate	249-828-6	29761-21-5	5 – 10	**N; R50/53

The product also contains ammoniumpolyphosphate, mixture of alcohols, polyvinylacetate dispersion (water based) and titanium dioxide.

* Classification and Risk-phrases in compliance with Commission Directive 67/548/EEC, 2001/59/EC and 1999/45/EC, 2001/60/EC.

** Own classification

*** Producers classification

Declared R-phrases are explained under chapter 16.

3. HAZARDS IDENTIFICATION

Health: *The product is not classified as harmful.*
Inhalation of vapour may cause smarting pain in the mouth and respiratory system, cough and breathing difficulties. Skin contact may cause smarting pain and mild redness. Splash in the eyes might give smarting pain. Ingestion may cause sickness and vomiting.

Environmental: *The product is not classified as hazardous to the environment.* (See heading 12 for more information).

Fire: Not flammable. The product is very resistant towards fire.

Physical/chemical: -

4. FIRST-AID MEASURES

Inhalation: Fresh air.

Skin contact: Take off contaminated clothes. Wash the skin with soap and water.

Eye contact: Rinse the eyes with water for some minutes. Keep the eyelids open and remove possible contacts. Seek medical advice if pain remains.

Ingestion: Drink a few glasses of milk or water. Seek medical advice if a larger amount has been swallowed.

Information to medical adviser: -

Updated Safety Data Sheet is available at Swedish Poisons Information Centre tel.+46 (0)8 33 12 31

5. FIRE- FIGHTING MEASURES

The product is very resistant towards fire. Suitable extinguishing agents are – foam, carbon dioxide or water spray. Container near fire should be removed or cooled with water. At combustion (more than 250°C) ammonia and nitrogen oxides may emit.

6. ACCIDENTAL RELEASE MEASURES

Avoid discharge to drain. Absorb waste with a liquid binding material such as sand, soil or similar and treat as conventional waste. Spilt product could cause an extremely slippery surface. See also heading 8, exposure controls/personal protection.

7. HANDLING AND STORAGE

Avoid direct contact with the product. Store in a cool and dry place (< 25°C) in a tight closed container. Must not be exposed for white frost.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Ensure adequate ventilation.

Technical protection: -

Personal protection: At aerosol treatment respiratory protection equipment (gas mask with particle filter P2) should be used. Protection gloves and goggles when needed.

Recommended glove material: Rubber or PVC.

Exposure limitation: Avoid discharge to drain.

Exposure limits according to the Swedish Work Environment Authority (*AFS 2005:17*)

Titandioxide: 5 mg/m³ (NGV)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous white liquid with faint odour.

Density: 1,2-1,3 g/cm³

Solubility in water: Soluble

Boiling point: 100°C

pH: 8,0-8,8 (10% solution)

Viscosity: 4000-9000 mPas/20°C

10. STABILITY AND REACTIVITY

Stable under normal conditions. When heated over 250°C, small amounts of ammonia emit.

11. TOXICOLOGICAL INFORMATION

Inhalation: Inhalation of vapour may cause smarting pain in the mouth and respiratory system, cough and difficulties with breathing.

Skin contact: Skin contact may cause smarting pain and mild redness.

Eye contact: Splash in the eyes might give smarting pain.

Ingestion: Ingestion may cause smart, sickness and vomiting.

Further toxicological remarks: -

Toxicological data:	Isodecyldiphenylphosphate:	LD ₅₀ oral rat: >15800 mg/kg, LD ₅₀ skin rabbit: >7900 mg/kg, LC ₅₀ inhalation rat: >6,3 mg/l/4h.
	Titandioxide:	LD ₅₀ oral rat: >100 000 mg/kg
	Ammoniumpolyphosphate:	LD ₅₀ oral rat: 4740 mg/kg

12. ECOLOGICAL INFORMATION

The product is not expected to cause any negative effects to the environment. It contains isodecyldiphenylphosphate which has a very high toxicity to daphnia, easy biodegradable and can bioaccumulate. The substance formally fulfils the criteria for environmental hazard, R50/53, Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. As the water solubility of the substance is very low (0,03 mg/l) the aquatic toxicity won't find expression under the solubility limit. The substance has also a rapid elimination in organisms that has absorbed it, why the risk for serious effects in the environment is low at small outlets.

Aquatic toxicity:	Isodecyldiphenylphosphate:	LC ₅₀ daphnia 48h: 0,5 mg/l (spec: D. magna); LC ₅₀ fish 96h: >0,03 mg/l (spec: Lepomis macrochirus, m fl)
	Ammoniumpolyfosfat:	LC ₅₀ fish 96h: 123 mg/l (spec: Oncorhynchus mykiss); LC ₅₀ daphnia 48h: 848 mg/l (spec: D. magna)
Biodegradable:	Isodecyldiphenylphosphate:	63 % is biodegradable in 28 days according to OECD-test
Mobility and bioaccumulation:	Isodecyldiphenylphosphate:	BCF: 335; Log P _{ow} : 5,44

13. DISPOSAL CONSIDERATIONS

A water suspension of the product and dried product can be treated as conventional waste, EWC-code 08 01 20, in accordance to local regulations (Avfallsförordningen, SFS 2001:1063).

14. TRANSPORT INFORMATION

Not a hazardous product regarding transport legislation.

15. REGULATORY INFORMATION

Symbols

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Risk and Safety phrases

The product is not classified as harmful according to Swedish regulations KIFS 2005:7.

Other labelling:

Safety data sheet available for professional user on request.

Other regulations:

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16. OTHER INFORMATION

References:

Lewis, R.J. (1992) Sax's Dangerous Properties of Industrial Materials, 8th ed., Van Nostrand Reinhold, New York.

Discussions with the Chemical Inspectorate and the supplier of isodecyldiphenylphosphate regarding an investigation of the environmental hazard of the substance.

Skyddsblad och miljöskyddsblad för kemiska produkter; Sveriges Kemiska Industrikontor, Stockholm.

Databaserna: HSDB, IUCLID, EpiSuite

Kemiska Ämnen on line, Prevent.

Arbetskyddsstyrelsens Författningssamling, AFS 2005:17, Hygieniska gränsvärden och åtgärder mot luftföroreningar.

Information from the supplier.

This material safety data sheet was prepared in compliance with KIFS 2005:7, (Commission Directive 67/548/EEG, 2001/59/EG and 1999/45/EG, 2001/60/EG).

Declared R-phrases under chapter 2.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

This safety data sheet is revised according to following items:

- The safety data sheet has been revised according to new legislation (Swedish) KIFS 2005:7.
- The safety data sheet has been revised after new information from the supplier of isodecyldiphenylphosphate regarding the environmental hazard of the substance.
- The safety data sheet is dated 2007-10-02 and replaces version dated 2001-07-06.