

MATERIAL SAFETY DATA SHEET

Date: 2002-12-16

Version: 1.0

Revision:

1. Identification of the preparation and of the company

Product name **Edition 1**
Use **Paint**
Supplier **PadReturn AB**
 Furubäck, Gingri
 SE-513 95 Fristad
 Sweden
 Telephone +46-33-21 07 17
 Telefax +46-33-26 17 49

2. Composition/information on ingredients

Hazardous components	Conc	EC No	CAS No	Symbol	Risk phrases
Ethanol	10-20%	200-578-6	64-17-5	F	R11
Nitrocellulose*	10-30%		9004-70-0	F	R11

Risk phrases, explanations: R11 = Highly flammable

*Nitrogen content less than or equal to 12.6% dry mass of the nitrocellulose

3. Hazards identification

Classification Flammable
Health hazards None of the components in this product is classified as dangerous for health.
Environmental hazards None of the components in this product is classified as 'dangerous for the environment.'
Fire and explosion hazards The product is classified as flammable on the basis of its flash point. The product also contains nitrocellulose, which is highly flammable, and can be ignited by shock, impact, friction, sparks or static electricity. This hazard is mitigated in the products on the basis of the low nitrogen content and a level of plasticiser >18% in the nitrocellulose.

4. First-aid measures

Inhalation Fresh air and rest. Obtain medical attention for symptoms of difficulty in breathing.
Skin contact Remove contaminated clothing. In case of contact with skin wash affected area with water and soap.
Eye contact In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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Ingestion	If swallowed, seek medical attention and show the safety data sheet. Do not induce vomiting.
Medical treatment	Give symptomatic treatment and supportive therapy as indicated.

5. Fire-fighting measures

Fire and explosive properties	Product is flammable. It also contains nitrocellulose, which is a highly flammable solid.
Extinguishing media	Use water mist or spray. Remove containers from fire or cool them with water. Burning nitrocellulose can only be extinguished with water, but water jets should not be used directly on liquid fires.
Specific hazards	When burned product forms smoke, and toxic carbon and nitrogen oxides.
Protective equipment for fire fighters	Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions	Note risk of ignition and explosion. Ensure full personal protection, including respiratory protection, during removal of spillages.
Environmental precautions	Prevent leakage of large quantities into the draining system. In the event of larger spills contact the emergency services and local authorities.
Method for cleaning up	Extinguish all ignition sources, and ventilate. Absorb in earth or sand and place in suitable container for disposal. Wash contaminated surfaces with detergent.

7. Handling and storage

Information for safe handling	Keep container closed. Ensure adequate ventilation. Avoid contact with strong acids and alkalis and oxidising agents.
Storage	Closed container in a cool place. Keep away from sources of ignition and heat.

8. Exposure controls/personal protection

Engineering measures	Ensure adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Keep away from sources of ignition – No smoking. Ground container and transfer equipment to eliminate static electric sparks.
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Personal protective equipment

Where contact may occur, wear suitable protective clothing, chemical resistant gloves (polyvinyl) and safety glasses. Wear suitable respiratory protective equipment if exposure to levels above occupational exposure limit is likely. PPE manufacturers should be consulted.

Occupational exposure limits

Valeurs limites d'exposition professionnelle (France)

Ethanol	5000 ppm (15 min) (VLE/STEL)
	9500 mg/m ³ (15 min) (VLE/STEL)
	1000 ppm (8 h) (VME/TWA)
	1900 mg/m ³ (8 h) (VME/TWA)

9. Physical and chemical properties

Appearance	Viscous liquid
Odour	Weak, characteristic
Boiling point	>80 °C
Flash point	21–55 °C
Ignition temperature	> 400 °C
Relative density	>800 kg/m ³
Solubility in water	Partly miscible

10. Stability and reactivity

Stable under recommended storage and handling conditions

Conditions to avoid	Avoid strong heat and sources of ignition.
Materials to avoid	Nitrocellulose decomposes in contact with strong oxidising agents, alkalis and acids, and amines.
Hazard decomposition products	Smoke, and oxides of carbon and nitrogen, and other potentially toxic gases.

11. Toxicological information

Nitrocellulose has been used for many years without no evidence of adverse effects. No health effects are reported in the safety data sheet for the paint base. Ethanol is not classified on the basis of its toxicological hazards.

12. Ecological information

The following is not determined for the product itself, but are based on the knowledge of the components.

Mobility	The product may be mobile in both aquatic and terrestrial compartments, and could contaminate groundwater.
Persistence/degradability	Ethanol is biodegradable. No data available for other components.
Bioaccumulation	No data available.

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Toxicity

No data on the product is available. Esters form a substantial proportion of the product and are often harmful to aquatic organisms. There is no available evidence to suggest nitrocellulose is dangerous for the environment.

13. Disposal considerations

Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies who will advise you on how to dispose of special waste.

14. Transport information

ADR/RID**UN-No:** UN1263**Name:** Paint (including paint, lacquer etc.)**Class:** 3**Classification Code:** F1 **Packaging group:** III**IMDG-code****UN-No.:** UN1263**Proper shipping name:** Paint (including paint, lacquer etc.)**IMO-class:** 3**Subsidiary risk:** - **Packaging group:** III**EmS No.:** F-E, S-E**Marine pollutant:** -**DGR****UN-No.:** UN1263**Proper shipping name:** Paint (including paint, lacquer etc.)**Class:** 3**Subsidiary risk:** - **Packing group:** III

15. Regulatory information

Classification and labelling according to EC Directives

Danger label: None

Risk phrases: R10 Flammable

Safety phrases: None

Contains: Ethanol, nitrocellulose

16. Other information

Governing directives:

EU Directive 67/548/EEC (Dangerous Substances Directive), and 99/45/EC (Dangerous Preparations Directive) with modifications.

This Safety Data Sheet is based on EU Directive 2001/58/EC.