



SAFETY DATA SHEET

1. Identification of the preparation and of the company

Product name and/or code:	SYNTEKO RETARDER 1670
Chemical/technical name:	Retarder
Manufacturer:	ES SADOLIN AS TOBIASE 8 TALLINN 10147 Estonia Tel.+ 372 6 30 52 99 Fax: +372 6 305256 es@sadolin.ee
Poison centre:	6269390, 16662
Emergency telephone number:	112
Intended use:	For decorative and protective treatment

2. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Highly flammable.
 Human health hazard: Not classified as a hazardous product but due to the organic solvents content effects of over exposure might occur.

3. Composition/information on ingredients

Substance/preparation: Preparation

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC:

Ingredient name	EC number	CAS number	Concentration %	Classification
Ethanol	200-578-6	64-17-5	40-50	F R11
Ethyl acetate	205-500-4	141-78-6	1-5	F R11
Methanol	200-659-6	67-56-1	0,1	F R11
See section 16 for the full text of the R-phrases declared above				T R23/24/25-39/23/24/25

Occupational exposure limits, if available, are listed in section 8.
 See section 11 for more detailed information on health effects and symptoms.

4. First-aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

SAFETY DATA SHEET

Ingestion:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do not use solvents or thinners.
Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

5. Fire-fighting measures

Suitable:	Water spray. Carbon dioxide, dry chemical powder.
Not to be used:	Water may be ineffective in extinguishing large fires.
Special risks	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

Personal precaution procedures to be followed in case of lake or spill:	Evacuate area. Shut off all sources of ignition.
Procedure(s) of personal precaution(s):	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods for cleaning up:	Cover with dry-lime, sand, vermiculite or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Handling:	Directions for Safe Handling: Avoid breathing vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Electrically bond and ground metal containers to prevent static discharge when transferring liquid.
Storage:	Store in accordance with current regulations for flammable goods. Observe label precautions. Store between 0 and 25°C in a dry, well ventilated place away from sources of heat and open flame. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Keep container closed. Keep away from heat, sparks, and open flame or other ignition sources. No smoking. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains. Empty containers may contain flammable vapors that can be explosive.
Special requirements:	Post signs in storage areas to prevent smoking or striking of matches or lighters. Do not store containers near oxidizing agents.
Recommended:	Use original container. Keep container tightly closed.

8. Exposure controls/personal protection

Recommended monitoring procedures	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
<u>Exposure controls</u>	
Occupational exposure controls:	Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

SAFETY DATA SHEET

Respiratory protection: Wear appropriate respirator when ventilation is inadequate.
Hand protection: Gloves
Eye protection: Safety glasses
Skin protection: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Substance Name	CAS number	Long term exposure limit 8 hour TWA		Short term exposure limit (STEL) 15 minute	
		(ppm)	(mg/m3)	(ppm)	(mg/m3)
Ethanol	64-17-5	500	1000	1000	1900
Ethyl acetate	141-78-6	150	500	300	1100
Methanol	67-56-1	200	260	n.a.	n.a.

11. Toxicological information

General information

Appearance: Liquid
Colour: Colourless
Odour: Alcohol

Important health, safety and environmental information

pH: n.a.
Flash point (°C): 14°C
Boiling point (°C): n.a.
Explosion limits: n.a.
Density (kg/l): 0,91
VOC (g/l): 909

10. Stability and reactivity

Stability: Stable under recommended storage and handling conditions (see section 7).

Condition to avoid: Keep away from heat, flames, ignition sources and incompatibles.
Materials to Avoid: Strong oxidants, alkali metals, ammonia, oxidizing agents, peroxides.
Hazardous decomposition products: Carbon Dioxide (CO₂) and Carbon Monoxide (CO).

11. Toxicological information

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

Eye contact: Can cause irritation. Splashes may cause temporary pain and blurred vision.

Ingestion: Causes headaches, gastritis, intoxication, blindness and, in acute cases, death.

Inhalation: Excessive inhalation is irritating to the eyes and upper respiratory tract and can cause symptoms of intoxication.

Prolonged exposure to high concentrations may cause drowsiness, loss of appetite and inability to concentrate.

Skin contact: Removes natural oils and fats from skin causing redness, a mild burning sensation, and irritation, cracking or flaking.

Persons with pre-existing asthma and other respiratory conditions, skin disorders and eye problems or impaired liver and kidney functions may be more susceptible to the effects of the substance.

Chronic exposure: Prolonged skin contact causes drying and cracking of skin. May affect liver, kidneys, gastrointestinal

SAFETY DATA SHEET

tract, blood, CNS, reproductive system and cardiovascular system.
Ethanol has been linked to birth defects in human.

12. Ecological information

There are no data available on the preparation itself.
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations





Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Consult the local waste contractor and the local authority about the best way of handling cured adhesive. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification: 08 01 11* (European Waste Catalogue)

14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
ADR/RID Class	1263	Paint product	3	II		Hazard identification number 30 Limited quantity: LQ 7 EmS No: F-E, S-E
ADN Class	1263	Paint product	3	II		
IMDG Class	1263	Paint product	3	II		
IATA-DGR Class	1263	Paint product	3	II		

PG* : Packing group

15. Regulatory information

EU regulations

Hazard symbol/symbols:

SAFETY DATA SHEET



HIGHLY FLAMMABLE

Risk phrases:

R11: Highly flammable

Safety phrases:

S2: Keep out of reach of children.
S7/9: Keep container tightly closed and in a well-ventilated place.
S16: Keep away from sources of ignition - no smoking.
S23: Do not breathe vapour and spray mist.
S29: Do not empty into drains
S46: If swallowed, seek medical advice immediately and show this container or label.
S51: Use only in well ventilated areas.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe

R11 HIGHLY FLAMMABLE
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Full text of classifications referred to in sections 2 and 3 - Europe

F - HIGHLY FLAMMABLE
T - Toxic

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2

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.