



SAFETY DATA SHEET

1. Identification of the preparation and of the company

Product name and/or code:	SYNTEKO CLASSIC 1636/1637/1646
Chemical/technical name:	Lacquer
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, direct number 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: F; R11, R53

Legend: R11- Highly flammable
R53 - May cause long-term adverse effects in the aquatic environment

3. Composition/information on ingredients

Description: Mixture of substances listed below with nonhazardous additions.

Ingredient name	CAS number	EC number	Concentration %	Classification
Melamine-formaldehyde polymer	68002-25-5	--	5-10	R53
Urea RPW formaldehyde, butylated	68002-19-7	--	10-25	R53
Ethanol	64-17-5	200-578-6	10-25	F; R11
1-methoxypropan-2-ol	107-98-2	203-539-1	5-10	R10
1-ethoxypropan-2-ol	1569-02-4	216-374-5	1-5	R10
Formaldehyde	50-00-0	200-001-8	<0,15	Carc.Cat.3; R40 T; R23/24/25 C; R34-43

See section 16 for the full text of the R-phrases declared above.
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.
Ingestion:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

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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: SMALL FIRE: Use dry chemical powder.
LARGE FIRE: Use water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
Hazardous thermal decomposition products: These products are carbon oxides (CO, CO₂).
Not to be used: Water may be ineffective in extinguishing large fires.
Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).
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 precautions: Admissibly the danger of fire. Use only in well-ventilated areas. Depending on the size of the waste; Wear suitable protective clothing. To prevent skin contact protective gloves should be used during the work. Splash goggles.
Environmental precautions: Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas. Dike if necessary.
Methods for cleaning up: Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses.

7. Handling and storage

Handling: Directions for Safe Handling: Avoid breathing vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage: Electrically bond and ground metal containers to prevent static discharge when transferring liquid.
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 sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
No smoking. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains.
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.
Exposure controls

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Occupational exposure controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

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.

Occupational exposure limits 18.09.2001 nr 293 (RT I 2001, 77, 460) Estonia

Substance Name	CAS number	Long term exposure limit 8 hour TWA		Short term exposure limit (STEL) 15 minute	
		(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
Ethanol	64-17-5	500	1000	1000	1900
1-methoxypropan-2-ol	107-98-2	100	375	150	568

9. Physical and chemical properties

General information

Appearance: Liquid
Colour: Colourless
Odour: Organic solvents

Important health, safety and environmental information

pH: n.a.
Flash point (°C): 15°C
Boiling point (°C): n.a.
Explosion limits (v/v): Lower: 1% Upper: 19%
Density (kg/l): 1636, 1637: 0,98 / 1646: 0,97
VOC (g/l) 438 A+B

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

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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 classified as dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Additional information: This product contains 438 g/l VOC (A+B).

13. Disposal considerations

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. 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:
(European Waste Catalogue)

08 01 11 15.01.02 plastic packaging
waste paint and varnish containing organic solvents or other dangerous substances
15.01.02 plastic packaging

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		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

Hazard symbol/symbols:



HIGHLY FLAMMABLE

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Risk phrases: R11 Highly flammable
R53 May cause long-term adverse effects in the aquatic environment

Safety phrases: S2 Keep out of reach of children
S16 Keep away from sources of ignition - no smoking
S23 Do not breathe vapour and spray mist
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S46 If swallowed, seek medical advice immediately and show this container or label
S51 Use only in well ventilated areas
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets

Contains formaldehyde. May produce allergic reaction.

Tactile warning: Yes

16. Other information

Full text of R-phrases referred to in sections 2 and 3:	R10	Flammable.
	R11	Highly flammable
	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
	R34	Causes burns
	R40	Limited evidence of a carcinogenic effect
	R43	May cause sensitization by skin contact
Full text of classifications referred to in sections 2 and 3:	R53	May cause long-term adverse effects in the aquatic environment
	T	Toxic
	C	Corrosive
	F	Very flammable
Version:	5	
Date of issue:	01.02.2010	
Date of previous issue	12.02.2009	
Updated:	Complement in chapter 3	

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.



SAFETY DATA SHEET

1. Identification of the preparation and of the company

Product name and/or code:	SYNTEKO HARDENER 1647
Chemical/technical name:	Hardener
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, direct number 16662
Emergency telephone number:	112
Intended use:	Hardener

2. Hazards identification

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

Classification: F; R11
Xi; R36

Legend: R11- Highly flammable
R36- Irritating to eyes

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	CAS number	EC number	Concentration %	Classification
Ethyl acetate	141-78-6	205-500-4	1-5	F; R11, Xi; R36, R66, R67
Ethanol	64-17-5	200-578-6	50-60	F; R11
p-Toluene sulphonic acid	104-15-4	203-180-0	10-20	Xi; R36/37/38
1-methoxypropan-2-ol	107-98-2	203-539-1	20-30	R10
1-methoxypropanol	1589-47-5	216-455-5	0,1-0,5	R10 Repr. Cat. 2; R61 Xi; R37/38-41

See section 16 for the full text of the R-phrases declared above.
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

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

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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:	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
Hazardous thermal decomposition products:	These products are carbon oxides (CO, CO ₂).
Not to be used:	Water may be ineffective in extinguishing large fires.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).
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 precautions:	Admissibly the danger of fire. Use only in well-ventilated areas. Depending on the size of the waste; Wear suitable protective clothing. To prevent skin contact protective gloves should be used during the work. Splash goggles.
Environmental precautions:	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas. Dike if necessary.
Methods for cleaning up:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses.

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 sources ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. No smoking. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.
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.
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Exposure controls

Occupational exposure controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

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.

Occupational exposure limits 18.09.2001 nr 293 (RT I 2001, 77, 460) Estonia

Substance Name	CAS number	Long term exposure limit 8 hour TWA		Short term exposure limit 15 minute STEL	
		(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
Ethanol	64-17-5	500	1000	1000	1900
1-methoxypropan-2-ol	107-98-2	100	375	150	568

9. Physical and chemical properties

General information

Appearance: Liquid

Colour: Colourless

Odour: Characteristic

Important health, safety and environmental information

pH: n.a.

Flash point (°C): 15°C

Boiling point (°C): n.a.

Explosion limits (v/v): 1-14

Density (kg/l): 0.9

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.

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Chronic exposure: Prolonged skin contact causes drying and cracking of skin. May affect liver, kidneys, gastrointestinal 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. 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*	EmS No	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:



IRRITANT HIGHLY FLAMMABLE

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Risk phrases: R11: Highly flammable
R36: Irritating to eyes.

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.
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	R10	Flammable.
	R11	Highly flammable
	R20	Harmful by inhalation.
	R22	Harmful if swallowed.
	R36	Irritating to eyes.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R37/38	Irritating to respiratory system and skin.
	R41	Risk of serious damage to eyes.
	R61	May cause harm to the unborn child.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - Europe	Xn HARMFUL
	Xi IRRITATING
	F VERY FLAMMABLE
	T TOXIC

Version:	3
UPDATE:	Correction p. 1, 2
Date of issue:	2009-02-19
Date of previous issue	2008-03-26

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.