

SAFETY DATA SHEET

Synteko Star



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : Synteko Star
Product type : Waterbased Lacquer.
Product no. : 1628, 1629, 1630

Company/undertaking identification

Supplier/Manufacturer : Akzo Nobel Bygglim AB
 P.O. Box 11550
 100 61 Stockholm, Sweden
 Tel. +00468 7434000
 Fax. +00468 6436370

e-mail address of person responsible for this SDS : miljo_bygglim@akzonobel.com

Emergency telephone number (with hours of operation) : CALL 020-99 60 00
 (Kemiakuten, open 24 hours 7 days a week)

2. HAZARDS IDENTIFICATION

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

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS number	EC number	%	Classification
dipropylene glycol methyl ether	34590-94-8	252-104-2	5 - 10	Not classified. [2]
2-dimethylaminoethanol	108-01-0	203-542-8	1 - 2.5	R10 [1] Xn; R20/21/22 C; R34
See section 16 for the full text of the R-phrases declared above				

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First aid measures

Inhalation : If inhaled, remove to fresh air. Get medical attention if irritation occurs.
Ingestion : If swallowed in large amounts, seek medical advice and show this container or label. Do not induce vomiting.
Skin contact : Wash with plenty of soap and water.
Eye contact : Check for and remove any contact lenses. Rinse with water.
General information : In all cases of doubt, or when symptoms persist, seek medical attention.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Alcohol-resistant foam, CO2 powder, water spray or mist

Not suitable : Do not use water jet.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 nitrogen oxides

Date of issue/Date of revision : 2010-05-03.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up**
- Small spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Use only in a well-ventilated area. Put on appropriate personal protective equipment (see section 8). When handling the product good industrial hygienic standard should always be maintained.
- Storage** : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
dipropylene glycol methyl ether	AFS 2005:17 (Sweden, 6/2005). Absorbed through skin. STEL: 450 mg/m ³ 15 minute(s). STEL: 75 ppm 15 minute(s). TWA: 300 mg/m ³ 8 hour(s). TWA: 50 ppm 8 hour(s).

Exposure controls

- General** : Design the work so direct contact is avoided. Depending on handled quantities and working conditions, use following recommended protective equipment.
- Respiratory protection** : In case of inadequate ventilation wear respiratory protection. Full mask, filter A, brown (solvent)
- Hand protection** : For prolonged or repeated handling, use the following type of gloves: Nitrile gloves or other recommended gloves from the supplier.
- Eye protection** : Use safety eyewear designed to protect against splash of liquids.
- Skin protection** : No special protective clothing is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid.
- Color** : White. [Light]
- pH** : 7,5 to 8,5
- Flash point** : Closed cup: >61°C (>141,8°F)
- Density** : 1,04 g/cm³
- Other information**
- VOC content** : Max. 114 (g/l) with hardener.

10. STABILITY AND REACTIVITY

- Chemical stability** : The product is stable.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

- Skin** : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
- Eyes** : If splashed in the eyes, the liquid may cause irritation and reversible damage.
- Other information** : The product is not classified as harmful.

11. TOXICOLOGICAL INFORMATION

There is 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.

12. ECOLOGICAL INFORMATION

- Environmental effects** : No known significant effects or critical hazards.
- Other information** : There is no data available on the preparation itself. Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

13. DISPOSAL CONSIDERATIONS

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with applicable regional, national and local laws and regulations. Empty packages can be left for recycling. For Sweden: Akzo Nobel Bygglim AB are connected to the REPA-system (org.nr. 556026-1876). Please contact local authority for information advise on waste. Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
- European waste catalogue (EWC)** : 08 01 12 waste paint and varnish other than those mentioned in 08 01 11
- Hazardous waste** : No.

14. TRANSPORT INFORMATIONInternational transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information:
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG* : Packing group

15. REGULATORY INFORMATIONEU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

- Risk phrases** : This product is not classified according to EU legislation.
- Safety phrases** : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

- Full text of R-phrases referred to in sections 2 and 3 - Sweden** : R10- Flammable.
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R34- Causes burns.

- Full text of classifications referred to in sections 2 and 3 - Sweden** : C - Corrosive
Xn - Harmful

History

- Date of printing** : 2010-05-03.
- Date of issue/ Date of revision** : 2010-05-03.
- Date of previous issue** : 2010-01-04.
- Version** : 1.02
- Prepared by** : Eriksson Åsa

Indicates information that has changed from previously issued version.

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SAFETY DATA SHEET

SYNTEKO HARDNER



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : SYNTEKO HARDNER
Product type : Hardener
Product no. : 1648

Company/undertaking identification

Supplier/Manufacturer : Akzo Nobel Bygglim AB
 P.O. Box 11550
 100 61 Stockholm, Sweden
 Tel. +00468 7434000
 Fax. +00468 6436370

e-mail address of person responsible for this SDS : miljo_bygglim@akzonobel.com

Emergency telephone number (with hours of operation) : CALL 020-99 60 00
 (Kemiakuten, open 24 hours 7 days a week)

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xn; R42/43

Human health hazards : May cause sensitization by inhalation and skin contact.

Additional hazards : Contains isocyanates - See information supplied by the manufacturers.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS number	EC number	%	Classification
hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	500-060-2	50 - 75	Xn; R42/43 [1]
hexamethylene-di-isocyanate	822-06-0	212-485-8	<0.15	T; R23 [1] Xi; R36/37/38 [2] Xn; R42/43
See section 16 for the full text of the R-phrases declared above				

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First aid measures

Inhalation : If inhaled, remove to fresh air. Get medical attention if irritation occurs.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation develops.

General information In all cases of doubt, or when symptoms persist, seek medical attention.

See section 11 for more detailed information on health effects and symptoms.

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5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Do not release runoff from fire to drains or watercourses.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Put on appropriate personal protective equipment (see section 8). Avoid breathing vapor or mist. Use only in well-ventilated areas.
- Environmental precautions** : Absorb with dry earth, sand or other non-combustible material. Prevent entry into sewers, water courses, basements or confined areas.

Methods for cleaning up

- Small spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Use only in a well-ventilated area. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Put on appropriate personal protective equipment (see section 8). When handling the product good industrial hygienic standard should always be maintained. During work with isocyanate the workplace have to be well-ventilated. People who work with thermoplastics shall be educated to work with thermoplastics and go through a medical exam. Thermosetting plastic legislation, should be noticed.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between the following temperatures: 10°C - 30°C Keep container tightly closed and sealed until ready for use. Do not empty into drains.
- Packaging materials**
- Recommended** : Use original container. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
hexamethylene-di-isocyanate	AFS 2005:17 (Sweden, 6/2005). Skin sensitizer. CEIL: 0,03 mg/m ³ 5 minute(s). CEIL: 0,005 ppm 5 minute(s). TWA: 0,02 mg/m ³ 8 hour(s). TWA: 0,002 ppm 8 hour(s).

Exposure controls

- General** : Depending on handled quantities and working conditions, use following recommended protective equipment.
- Hygiene measures** : Use only in a well-ventilated area. 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 exposure to dusts below the OEL, suitable respiratory protection must be worn. When handling the product good industrial hygienic standard should always be maintained.
- Respiratory protection** : In case of inadequate ventilation wear respiratory protection. Vapor respirator, filter combination A-P2
- Hand protection** : Design the work so direct contact is avoided. For prolonged or repeated handling, use the following type of gloves: 4H gloves (with a penetration time > 4 hours) or other recommended gloves from the supplier.
- Eye protection** : Use safety eyewear designed to protect against splash of liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin protection : Comprehensive clothes

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid. [Viscous liquid.]
Color : Colorless.
Odor : Characteristic.
Flash point : Closed cup: 65°C (149°F)
Density : 1,08 g/cm³

10. STABILITY AND REACTIVITY

Chemical stability : The product is stable.
Conditions to avoid : Avoid all possible sources of ignition (spark or flame).
Materials to avoid : Reactive or incompatible with the following materials:
oxidizing materials

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation : May cause sensitization by inhalation. Due to the low volatility, harmful concentrations in the air will appear preferably when heated, spraying or by dust appearance. Inhalation of high concentrations may have a primary irritant effect on respiratory tract causing dry throat, coughing, fever, ague and nausea. Asthmatic attacks with laboured breathing, shortness of breath, chest tightning and difficulty in breathing may result and may occur immediately on exposure or some hours later. When sensitized respiratory inconvenience may occur at concentrations well below the threshold limit value. Isocyanates are mild skin irritants and may cause dermatitis. Exposure to decomposition products may cause a health hazard.

Skin contact : May cause skin irritation. May cause sensitization by skin contact.

Eye contact : May cause eye irritation.

Product/ingredient name	Result	Species	Dose	Exposure
hexamethylene-di-isocyanate	LD50 Dermal	Rabbit	570 uL/kg	-
	LD50 Oral	Rat	710 uL/kg	-
hexane, 1,6-diisocyanato-, homopolymer	LC50 Inhalation Vapor	Rat	18,5 mg/L	4 hours

Other information : There is 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.

12. ECOLOGICAL INFORMATION

Environmental effects : No known significant effects or critical hazards.

Other information : There is no data available on the preparation itself. Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with applicable regional, national and local laws and regulations. Empty packages can be left for recycling. For Sweden: Akzo Nobel Bygglim AB are connected to the REPA-system (org.nr. 556026-1876). Please contact local authority for information advise on waste. Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

European waste catalogue (EWC) : 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

Hazardous waste : Non cured product is Hazardous waste and should be left to destruction according to local regulations.

14. TRANSPORT INFORMATIONInternational transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG* : Packing group

15. REGULATORY INFORMATIONEU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Harmful

Risk phrases

: R42/43- May cause sensitization by inhalation and skin contact.

Safety phrases

: S2- Keep out of the reach of children.
 S23- Do not breathe vapor.
 S24- Avoid contact with skin.
 S28- After contact with skin, wash immediately with plenty of soap and water
 S37- Wear suitable gloves.
 S46- If swallowed, seek medical advice immediately and show this container or label.
 S51- Use only in well-ventilated areas.

Contains

: hexane, 1,6-diisocyanato-, homopolymer

Other EU regulations

Additional warning phrases : Contains isocyanates. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.

Tactile warning of danger : Yes, applicable.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Sweden : R23- Toxic by inhalation.
 R36/37/38- Irritating to eyes, respiratory system and skin.
 R42/43- May cause sensitization by inhalation and skin contact.

Full text of classifications referred to in sections 2 and 3 - Sweden : Xn = Harmful
 Xi = Irritating
 T = Toxic

History

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Prepared by : Eriksson Åsa

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