

Safety Data Sheet

Stålplast Flexible komp A

Replaces date: 18/10/2019

Revision date: 26/06/2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Stålplast Flexible komp A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Polyester putty two component system

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company: Hagmans Nordic AB
Address: Box 112
Zip code: 511 10
City: Fritsla
Country: SWEDEN
E-mail: info@hagmansnordic.com
Phone: +46 (0)320-18920
Homepage: www.hagmans.com

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Flam. Liq. 3;H226 Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Repr. 2;H361d STOT RE 1;H372 (Hearing organs.)

Most serious harmful effects: Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. (Hearing organs.)

2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: styrene; maleic anhydride;

Hazard Statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure. (Hearing organs.)

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local regulations.

VOC: This product contains a maximum of 250 g VOC/L. The limit value is 250 g VOC/L (cat. B/b)

2.3. Other hazards

When mixing two components, consult the safety data sheets for both components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
styrene	100-42-5	202-851-5	01-2119457861-32	10 -< 20%		Flam. Liq. 3;H226 Asp. Tox. 1;H304 Skin Irrit. 2;H315 Eye Irrit. 2;H319 Acute Tox. 4;H332 STOT SE 3;H335 Repr. 2;H361d STOT RE 1;H372 Aquatic Chronic 3;H412
ethyl acetate	141-78-6	205-500-4	01-2119475103-46-xxxx	0.1 -< 1%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336
maleic anhydride	108-31-6	203-571-6	01-2119472428-31	0.001 -< 0.1%		Acute Tox. 4;H302 Skin Corr. 1B;H314 Skin Sens. 1A;H317 Eye Dam. 1;H318 Resp. Sens. 1;H334 STOT RE 1;H372 (Respiratory and haematopoietic systems.) (Inhalation.)

Please see section 16 for the full text of H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air.
Seek medical advice in case of persistent discomfort.

Ingestion: Do not induce vomiting. Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Seek medical advice in case of discomfort.

Skin contact: Remove contaminated clothing. Wash skin with soap and water.
Contact physician if irritation persists.

Eye contact: Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes.
Open eye wide. Remove any contact lenses.
Seek medical advice in case of persistent discomfort.

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General: When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam, carbon dioxide or water mist.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous fumes are formed in fire conditions.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

Other Information: Containers close to fire should be removed immediately or cooled with water. Fire residues and extinguishing water must be disposed of in accordance with local rules.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Provide good ventilation.
Keep unnecessary personnel away.
Wear respiratory protective equipment.
Wear suitable protective clothing. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Collect the spillage into suitable containers for incineration.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

All work must be carried out under well-ventilated conditions. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke during work.

When mixing two components, consult the safety data sheets for both components.

Avoid contact with skin and eyes.

Avoid inhalation of vapours. When grinding, avoid inhaling of dust.

See the technical data sheet for specific use instructions.

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7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.
Keep in tightly closed original packaging. Store in a dry, cool, well-ventilated area.
Avoid direct sunlight. Avoid heating and contact with ignition sources.

7.3. Specific end use(s)

See the technical data sheet for specific use instructions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Remarks	Comments
styrene	15m	250	1080			
styrene	8h	100	430			
ethyl acetate	8h	200				
ethyl acetate	15m	400				
maleic anhydride	8h		1			Sen
maleic anhydride	15m		3			Sen

Sen = Capable of causing occupational asthma.

PNEC

styrene, cas-no 100-42-5				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	0,014 mg/l			
PNEC STP (wastewater-treatment facilities)	5 mg/l			
PNEC sediment (freshwater)	0,614 mg/kg			
PNEC sediment (marine water)	0,307 mg/kg			
PNEC aqua (freshwater)	0,028 mg/l			
PNEC soil	0,2 mg/kg			

DNEL - workers

styrene, cas-no 100-42-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - systemic effects)	289 mg/m ³				
Inhalation DNEL (acute/short-term exposure - local effects)	306 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	406 mg/kg bw/day				

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Inhalation DNEL (long-term exposure - systemic effects)	85 mg/m ³				
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DNEL - general population

styrene, cas-no 100-42-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - systemic effects)	174,25 mg/m ³				
Dermal DNEL (long- term exposure - systemic effects)	10,2 mg/m ³				
Dermal DNEL (long- term exposure - systemic effects)	343 mg/kg bw/day				
Oral DNEL (long- term exposure - systemic effects)	2,1 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - local effects)	182,75 mg/m ³				

8.2. Exposure controls

Appropriate engineering controls: Running water and eye wash equipment must be available. Provide good ventilation. Smoking and naked flames prohibited. Good personal hygiene is important. All work must be carried out under well-ventilated conditions. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke during work.

Personal protective equipment, eyeface protection: Wear safety goggles if there is a risk of eye splash.

Personal protective equipment, skin protection: Wear suitable protective clothing.

Personal protective equipment, hand protection: Wear gloves. Gloves must conform to EN 374. Type of material and thickness: Viton rubber (fluor rubber). > 0,7 mm Breakthrough time has not been determined for the product. Change gloves often. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: If ventilation is insufficient, use a respirator with A/P2 filter. Check that mask fits tightly and change filter regularly.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Paste
Colour	White
Odour	Characteristic
Solubility	Solubility in water: Not miscible
Explosive properties	Not specified

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Oxidising properties	Not specified	
Parameter	Value/unit	Remarks
pH (solution for use)		Not applicable.
pH (concentrate)		Not applicable.
Melting point		Not determined.
Freezing point		Not determined.
Initial boiling point and boiling range	145 °C	styrene
Flash Point	~ 31 °C	
Evaporation rate		Not determined.
Flammability (solid, gas)		Not applicable.
Flammability limits		Not determined.
Explosion limits	1.1 - 8.0 vol%	styrene
Vapour pressure	~ 7 hPa	styrene
Vapour density		Not specified
Relative density		Not determined.
Partition coefficient n-octanol/water		Not determined.
Auto-ignition temperature		Not determined.
Decomposition temperature		Not determined.
Viscosity		Not determined.
Odour threshold		Not determined.

9.2. Other information

Parameter	Value/unit	Remarks
Density	1850 kg/m ³	

SECTION 10: Stability and reactivity

10.1. Reactivity

None known.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.
Do not expose to heat (e.g. sunlight).

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Gases that are dangerous to health are formed in a fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

styrene, cas-no 100-42-5

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5000mg/kg bw			

maleic anhydride, cas-no 108-31-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		400mg/kg			

Acute toxicity - dermal

styrene, cas-no 100-42-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg bw			

maleic anhydride, cas-no 108-31-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		2620mg/kg			

Acute toxicity - inhalation

styrene, cas-no 100-42-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4h	11.8mg/l			
	NOAEL	2 year	0.8mg/l		OECD 453	
	NOAEL	13 weeks	0.85mg/l		target: ears / hearing	

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory sensitisation or skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on existing data, the classification criteria are deemed not to have been met.

Carcinogenic properties: Based on existing data, the classification criteria are deemed not to have been met.

Reproductive toxicity: Suspected of damaging the unborn child.

Single STOT exposure: Based on existing data, the classification criteria are deemed not to have been met.

Repeated STOT exposure: Causes damage to organs through prolonged or repeated exposure. Hearing organs.

Aspiration hazard: Based on existing data, the classification criteria are deemed not to have been met.

SECTION 12: Ecological information

12.1. Toxicity

styrene, cas-no 100-42-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	10mg/l			ECHA
Algae	Pseudokirchneriella subcapitata		72hEC50	4.9mg/l			ECHA
Crustacea	Daphnia magna		48hEC50	4.7mg/l			ECHA

12.2. Persistence and degradability

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styrene, cas-no 100-42-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 days	ISO DIS 9408, ThOD	70.9%	Readily biodegradable.	ISO DIS 9408, ThOD	

12.3. Bioaccumulative potential

styrene, cas-no 100-42-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	< 500	The product does not bioaccumulate.		

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Mix with the hardener so that the product hardens. After curing the product is not classified as harmful waste.

Category of waste: EWC code: Depends on line of business and use, for instance
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: 3269	14.4. Packing group: III
14.2. UN proper shipping name: POLYESTER RESIN KIT	14.5. Environmental hazards: The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es): 3	
Hazard label(s): 3	
Hazard identification number:	Tunnel restriction code: E

Inland water ways transport (ADN)

14.1. UN number or ID number: 3269	14.4. Packing group: III
14.2. UN proper shipping name: POLYESTER RESIN KIT	14.5. Environmental hazards: The product should not be labelled as an environmental hazard (symbol: fish and tree).

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14.3. Transport hazard class(es): 3
Hazard label(s): 3
Transport in tank vessels:

Sea transport (IMDG)

14.1. UN number or ID number:	3269	14.4. Packing group:	III
14.2. UN proper shipping name:	POLYESTER RESIN KIT	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	
Hazard label(s):	3	IMDG Code segregation group:	- None -
EmS:	F-E, S-D		

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	3269	14.4. Packing group:	III
14.2. UN proper shipping name:	POLYESTER RESIN KIT	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other Information: Limited quantities (LQ) : 5 liter.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions:

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Other Information: When mixing two components, consult the safety data sheets for both components. This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Vendor notes: Changes have been made in sections: 15, 16.

List of relevant H-statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure. (Hearing organs.)
H372	Causes damage to organs through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure. (Respiratory and haematopoietic systems.) (Inhalation.)
H412	Harmful to aquatic life with long lasting effects.

Country: GB