

Trade name: SCANDIPLAST

Current version : 3.0.0, issued: 21.03.2022

Replaced version: 2.0.2, issued: 29.01.2019

Region: GB

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

adhesive resin, paint resin ,cast resin

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**SCAN-DIA GmbH  
Luetkenheider Strasse 11  
58099 Hagen  
GermanyTelephone no. +49 (0) -2331-62469-0  
Fax no. +49 (0) -2331-62469-29  
e-mail info@scan-dia.com**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Irrit. 2; H319

Flam. Liq. 3; H226

Repr. 2; H361d

Skin Irrit. 2; H315

STOT RE 1; H372

STOT SE 3; H335

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS08

**Signal word**

Danger

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**Hazardous component(s) to be indicated on label:**

styrene

**Hazard statement(s)**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to the ear through prolonged or repeated exposure by inhalation.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**2.3 Other hazards**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	styrene			
	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H335 STOT RE 1; H372 Aquatic Chronic 3; H412 Repr. 2; H361d	>= 25.00 - < 50.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Route, target organ, concrete effect
1	H372 inhalational; ear; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1			11,8 mg/l

**SECTION 4: First aid measures****4.1 Description of first aid measures**

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**General information**

Remove affected person from danger area, lay him down. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Ensure supply of fresh air. In case of persisting adverse effects consult a physician. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

**After skin contact**

Remove contaminated clothing immediately and dispose of safely. When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting - aspiration hazard. Call a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed****Symptoms**

Headache; Dizziness; Nausea; In some cases intoxication symptoms may only occur after a long time / several hours.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Alcohol-resistant foam; Carbon dioxide; Dry chemical extinguisher

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Nitrogen oxides (NO<sub>x</sub>); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); In case of combustion evolution of dangerous gases possible. Formation of explosive mixtures with air is possible.

**5.3 Advice for firefighters**

Do not inhale explosion and/or combustion byproducts. Use self-contained breathing apparatus. Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Ensure adequate ventilation. Keep away from ignition sources. Avoid contact with skin, eyes and clothing. Do not inhale vapours. High risk of slipping due to leakage/spillage of product.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the subsoil/soil. Do not allow to enter drains or waterways. In case of entry into waterways, soil or drains, inform the responsible authorities.

**6.3 Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g., general-purpose binder). When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

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Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid contact with skin and eyes. Do not eat or drink during work - no smoking.

#### General protective and hygiene measures

Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Do not smoke. Take precautionary measures against static charges.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep only in the original container, tightly closed, in a well ventilated place. Protect from heat and direct sunlight. Storage: cool and dry; Store the Whey Bath away from moisture.

#### Incompatible products

Do not store together with: oxidizing agents; oxidizing substances; spontaneously combusting substances; Heavy metal salts; Acids; Bases; Peroxides

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
List of approved workplace exposure limits (WELs) / EH40			
Styrene			
	WEL short-term (15 min reference period)	1080	mg/m <sup>3</sup> 250 ppm
	WEL long-term (8-hr TWA reference period)	430	mg/m <sup>3</sup> 100 ppm

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	styrene	100-42-5 202-851-5		
	dermal	Long term (chronic)	systemic	406 mg/kg/day
	inhalative	Short term (acut)	systemic	289 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	85 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	306 mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	styrene	100-42-5 202-851-5		
	oral	Long term (chronic)	systemic	2.1 mg/kg/day
	dermal	Long term (chronic)	systemic	343 mg/kg/day
	inhalative	Long term (chronic)	systemic	10.2 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	174.25 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	182.75 mg/m <sup>3</sup>

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**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	styrene		100-42-5	
			202-851-5	
	water	fresh water	0.028	mg/L
	water	marine water	0.014	mg/L
	water	fresh water sediment	0.614	mg/kg dry weight
	water	marine water sediment	0.307	mg/kg dry weight
	water	Aqua intermittent	0.04	mg/L
	soil	-	0.2	mg/kg dry weight
	sewage treatment plant	-	5	mg/L

**8.2 Exposure controls****Appropriate engineering controls**

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 vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Breathing apparatus: gas filter A, code colour: brown

**Eye / face protection**

Safety glasses with side protection shield (EN 166)

**Hand protection**

Chemical resistant gloves (EN 374); For prolonged or repeated contact: use barrier creams, which may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Mind the manufacturer recommendations.

Appropriate Material

butyl rubber

Material thickness

0.7 mm

Breakthrough time

30 min

**Other**

Check suitability of protective clothing for the specific workplace conditions. Chemical resistance of the protective equipment should be discussed with the manufacturer of the protective equipment.

**Environmental exposure controls**

Do not empty into drains.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>
liquid
<b>Form/Colour</b>
liquid
green
<b>Odour</b>
of styrene
<b>pH value</b>
No data available
<b>Boiling point / boiling range</b>
No data available

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Melting point/freezing point	
No data available	

Decomposition temperature	
No data available	

Flash point	
Value	34 °C
Method	ISO 3679

Ignition temperature	
Value	480 °C
Reference substance	Styrene

Auto-ignition temperature	
Value	480 °C
Reference substance	Styrene

Flammability	
No data available	

Lower explosion limit	
Value	1.1 % vol
Reference substance	Styrene

Upper explosion limit	
Value	8 % vol
Reference substance	Styrene

Vapour pressure	
Value	6 mbar
Reference temperature	20 °C
Reference substance	Styrene

Relative vapour density	
No data available	

Relative density	
No data available	

Density	
Value	1.04 g/ml
Reference temperature	20 °C

Solubility in water	
Comments	insoluble

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
log Pow		2.96	
Reference temperature		25	°C
Source		ECHA	

Viscosity	
Value	61 s
Method	ISO 2431 (6 mm)

Particle characteristics	
No data available	

## 9.2 Other information

Other information
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No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

Protect from light. Heat effect; risk of polymerisation

**10.5 Incompatible materials**

Exothermal reactions with: Acids; Bases; Peroxides; Heavy metal salts; Radical former

**10.6 Hazardous decomposition products**

None if stored, handled and transported properly.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
LD50		5000	mg/kg bodyweight
Species	rat		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
LD50		> 2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	SCANDIPLAST
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
LC50		11.8	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5

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Species	rabbit
Source	ECHA
Evaluation	irritant

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Species	rabbit		
Source	ECHA		
Evaluation	irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
LC50		4.02	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		



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Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
EC50		4.7	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
NOEC		1.01	mg/l
Duration of exposure		21	day(s)
Species		Daphnia magna	
Method		OECD 211	
Source		ECHA	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
EC50		4.9	mg/l
Duration of exposure		72	h
Species		Selenastrum capricornutum	
Method		EPA OTS 797.1050	
Source		ECHA	

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
EC10		0.28	mg/l
Duration of exposure		96	day(s)
Species		Selenastrum capricornutum	
Method		EPA OTS 797.1050	
Source		ECHA	

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
EC50		appr. 500	mg/l
Species		activated sludge	
Method		OECD 209	
Source		ECHA	

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Type		ThOD	
Value		70.9	%
Duration		28	d
Method		ISO DIS 9408	
Source		ECHA	
Evaluation		readily biodegradable	

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Type		Photolysis	

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Half-life	7.4	h
Source	ECHA	

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
log Pow		2.96	
Reference temperature		25	°C
Source		ECHA	

**12.4 Mobility in soil**

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
log Koc		2.55	
Reference temperature		20	°C
Method		QSAR	
Source		ECHA	

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.
Do not allow to enter soil, waterways or waste water canal.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Remove in accordance with local official regulations.

**Packaging**

Completely discharge containers. Do not reuse product container. Comply with all EU, national and local regulations.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1866
Proper shipping name	RESIN SOLUTION
Tunnel restriction code	D/E
Label	3

**14.2 Transport IMDG**

Class	3
Packing group	III

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UN number	UN1866
Proper shipping name	RESIN SOLUTION
EmS	F-E, S-E
Label	3

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	III
UN number	UN1866
Proper shipping name	Resin solution
Label	3

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3, 40
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	styrene	100-42-5	202-851-5	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	P5c
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**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content	0.83 %
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**Other regulations**

Observe employment restrictions for young people.  
Observe employment restrictions for child bearing mothers and nursing mothers.

**15.2 Chemical safety assessment**

A chemical safety assessment has been carried out for the following substance/s in this mixture:

CAS no.	100-42-5
EC no.	202-851-5

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## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H304                              May be fatal if swallowed and enters airways.  
H332                              Harmful if inhaled.

### Creation of the safety data sheet

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e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID      639670