

Trade name: SCANDIPLAST

Current version : 2.0.2, issued: 29.01.2019

Replaced version: 2.0.1, issued: 07.05.2018

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
Germany

Telephone 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 (Gif tinformat ionszentrum 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

Skin Irrit. 2; H315

STOT RE 1; H372i

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.
 H372i Causes damage to organs through prolonged or repeated exposure if inhaled.
 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.
 P273 Avoid release to the environment.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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	Classification (EC) 1272/2008 (CLP)	Additional information	
	CAS / EC / Index / REACH no		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	> 30.00 - < 50.00	%-b.w.

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	D	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

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

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SECTION 4: First aid measures**4.1 Description of first aid measures****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 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_x); Carbon monoxide (CO); Carbon dioxide (CO₂); 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 gases. 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 sources of ignition. 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 picked up, treat material as prescribed under heading "Disposal considerations".

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6.4 Reference to other sections

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

Advice on storage assembly

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 ³ 250 ppm
	WEL long-term (8-hr TWA reference period)	430	mg/m ³ 100 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 ³
	inhalative	Long term (chronic)	systemic	85 mg/m ³
	inhalative	Short term (acut)	local	306 mg/m ³

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 ³
	inhalative	Short term (acut)	systemic	174.25 mg/m ³
	inhalative	Short term (acut)	local	182.75 mg/m ³

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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

Ensure adequate ventilation, local exhaust at the work station if necessary.

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

Form/Colour	
liquid	
green	
Odour	
of styrene	
Odour threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
Value	145 °C

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Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value		34	°C
Ignition temperature			
Value		480	°C
Reference substance	Styrene		
Auto-ignition temperature			
Value		480	°C
Reference substance	Styrene		
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
Value		1.1	% vol
Reference substance	Styrene		
Upper flammability or explosive limits			
Value		8	% vol
Reference substance	Styrene		
Vapour pressure			
Value		6	mbar
Reference temperature		20	°C
Reference substance	Styrene		
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value		1.04	g/ml
Reference temperature		20	°C
Solubility in water			
Comments	insoluble		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
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)		

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9.2 Other information

Other information

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 toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
LD50		appr. 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	

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Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
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 not 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			

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	

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Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
Type		Photolysis	
Half-life		7.4	h
Source		ECHA	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	styrene	100-42-5	202-851-5
BCF		13.5	
Source		ECHA	

Partition coefficient: n-octanol/water			
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 Other adverse effects

No data available.

12.7 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.

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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
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 Transport in bulk according to Annex II of Marpol and the IBC Code

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, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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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	0.24	%
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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

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.
H372 Causes damage to organs through prolonged or repeated exposure.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

D Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Department issuing safety data sheet

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e-mail: 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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