



Safety Data Sheet according to (EC) No 1907/2006

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SDS No. : 211423
V005.0

Marine Filler juniortub part A

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

1.1. Product identifier

Marine Filler juniortub part A

Contains:

Styrene

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

Intended use:
2K Filler paste

1.3. Details of the supplier of the safety data sheet

Henkel Limited
2 Bishop Square Business Park
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933
Fax-no.: +44 1606 863762

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable liquids	Category 3
H226 Flammable liquid and vapor.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Toxic to reproduction	Category 2
H361d Suspected of damaging the unborn child.	
Specific target organ toxicity - repeated exposure	Category 1
H372 Causes damage to organs through prolonged or repeated exposure.	

Classification (DPD):

Flammable
R10 Flammable.
Xn - Harmful
R20 Harmful by inhalation.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Toxic for reproduction -
category 3.

R63 Possible risk of harm to the unborn child.

Xi - Irritant
R36/38 Irritating to eyes and skin.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word: Danger

Hazard statement:
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statement: P102 Keep out of reach of children.

Precautionary statement: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Prevention
No smoking.
P261 Avoid breathing vapours.
P281 Use personal protective equipment as required.

Precautionary statement: P302+P352 IF ON SKIN: Wash with plenty of soap and water.
Response
P337+P313 If eye irritation persists: Get medical advice/attention.

Label elements (DPD):

Xn - Harmful



Risk phrases:

R10 Flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.

Safety phrases:

S2 Keep out of the reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water and soap.
S36/37 Wear suitable protective clothing and gloves.

Contains:

Styrene

2.3. Other hazards

None if used properly.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Styrene 100-42-5	202-851-5 01-2119457861-32	> 12,5- 20 %	Flammable liquids 3 H226 Acute toxicity 4; Inhalation H332 Aspiration hazard 1 H304 Serious eye irritation 2 H319 Skin irritation 2 H315 Toxic to reproduction 2 H361d Specific target organ toxicity - repeated exposure 1; Inhalation H372 Chronic hazards to the aquatic environment 3 H412

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Styrene 100-42-5	202-851-5 01-2119457861-32	> 12,5 - 20 %	R10 Xn - Harmful; R20, R48/20, R63, R65 Xi - Irritant; R36/38

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

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

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

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

See section: Description of first aid measures

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

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

In case of fire, keep containers cool with water spray.
Oxides of carbon, oxides of nitrogen, irritating organic vapors.

5.3. Advice for firefighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Additional information:

Do not inhale vapors and fumes.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove sources of ignition.
Ensure adequate ventilation.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

For small spills wipe up with paper towel and place in container for disposal.

Wash spillage site thoroughly with soap and water or detergent solution.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Do not inhale vapors and fumes.

Avoid skin and eye contact.

Keep away from sources of ignition - no smoking.

Use only in well-ventilated areas.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition.

Store in a cool, well-ventilated place.

7.3. Specific end use(s)

2K Filler paste

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure Limits**

Valid for
Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
TALC, RESPIRABLE DUST 14807-96-6		1	Time Weighted Average (TWA):		EH40 WEL
STYRENE 100-42-5	250	1.080	Short Term Exposure Limit (STEL):		EH40 WEL
STYRENE 100-42-5	100	430	Time Weighted Average (TWA):		EH40 WEL
TITANIUM DIOXIDE, TOTAL INHALABLE 13463-67-7		10	Time Weighted Average (TWA):		EH40 WEL
TITANIUM DIOXIDE, RESPIRABLE 13463-67-7		4	Time Weighted Average (TWA):		EH40 WEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Styrene 100-42-5	aqua (freshwater)					0,028 mg/L	
Styrene 100-42-5	aqua (marine water)					0,0028 mg/L	
Styrene 100-42-5	aqua (intermittent releases)					0,04 mg/L	
Styrene 100-42-5	STP					5 mg/L	
Styrene 100-42-5	sediment (freshwater)					0,614 mg/kg	
Styrene 100-42-5	sediment (marine water)					0,0614 mg/kg	
Styrene 100-42-5	soil					0,2 mg/kg	

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Styrene 100-42-5	Workers	Inhalation	Acute/short term exposure - systemic effects		289 mg/m ³	
Styrene 100-42-5	Workers	Inhalation	Acute/short term exposure - local effects		306 mg/m ³	
Styrene 100-42-5	Workers	Dermal	Long term exposure - systemic effects		406 mg/kg	
Styrene 100-42-5	Workers	Inhalation	Long term exposure - systemic effects		85 mg/m ³	
Styrene 100-42-5	general population	Inhalation	Acute/short term exposure - systemic effects		174,25 mg/m ³	
Styrene 100-42-5	general population	Inhalation	Acute/short term exposure - local effects		182,75 mg/m ³	
Styrene 100-42-5	general population	Dermal	Long term exposure - systemic effects		343 mg/kg	
Styrene 100-42-5	general population	Inhalation	Long term exposure - systemic effects		10,2 mg/m ³	
Styrene 100-42-5	general population	oral	Long term exposure - systemic effects		2,1 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; ≥ 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; ≥ 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:

Wear suitable protective clothing.

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

Appearance	paste
Odor	grey
Odour threshold	characteristic
	No data available / Not applicable
pH	No data available / Not applicable
Initial boiling point	> 100,0 °C (> 212 °F)
Flash point	32 °C (89.6 °F); Supplier method
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density	1,2000 g/cm ³
(23 °C (73.4 °F))	
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative)	Insoluble
(Solvent: Water)	
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

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

None if used properly.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity

10.6. Hazardous decomposition products

carbon oxides.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****General toxicological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

STOT-repeated exposure:

Causes damage to organs through prolonged or repeated exposure.

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

May cause headache and dizziness.

Skin irritation:

Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.
Causes skin irritation.

Eye irritation:

Causes serious eye irritation.

Reproductive toxicity:

Suspected of damaging the unborn child.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Styrene 100-42-5	Acute toxicity estimate (ATE)	6.600 mg/kg	oral			Expert judgement
Styrene 100-42-5	LD50	6.600 - 8.000 mg/kg			rat	

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Styrene 100-42-5	LC50	11,8 mg/l	inhalation	4 h	rat	

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Styrene 100-42-5	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Styrene 100-42-5	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Styrene 100-42-5	positive	sister chromatid exchange assay in mammalian cells	with and without		OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Styrene 100-42-5	negative	inhalation: vapour		mouse	

Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure timeFrequency of treatment	Route of application	Method
Styrene 100-42-5	not carcinogenic	rat	male/female	104 weeks; 9 or 10 rats per... 6 hours/day, 5 days/week	inhalation: vapour	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Styrene 100-42-5	NOAEL=1.000 mg/kg	oral: gavage	daily (5 d/w)	rat	
Styrene 100-42-5	LOAEL=2.000 mg/kg	oral: gavage	daily (5 d/w)	rat	
Styrene 100-42-5		inhalation: vapour	4 w 6 h/d, 5 d/w	rat	

SECTION 12: Ecological information**General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity**Ecotoxicity:**

Do not empty into drains / surface water / ground water.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Styrene 100-42-5	LC50	10 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Styrene 100-42-5	EC50	4,7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Styrene 100-42-5	EC10	0,28 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
	EC50	6,3 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Styrene 100-42-5	NOEC	1,01 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

12.2. Persistence and degradability

Persistence and Biodegradability:

The product is not biodegradable.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Styrene 100-42-5	readily biodegradable	aerobic	87 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

Bioaccumulative potential:

No data available for the product.

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Styrene 100-42-5		74				
Styrene 100-42-5	2,96				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Incineration under controlled conditions is recommended.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

SECTION 14: Transport information**14.1. UN number**

ADR	2055
RID	2055
ADNR	2055
IMDG	2055
IATA	2055

14.2. UN proper shipping name

ADR	STYRENE MONOMER, STABILIZED (solution)
RID	STYRENE MONOMER, STABILIZED (solution)
ADNR	STYRENE MONOMER, STABILIZED (solution)
IMDG	STYRENE MONOMER, STABILIZED (solution)
IATA	Styrene monomer, stabilized (solution)

14.3. Transport hazard class(es)

ADR	3
RID	3
ADNR	3
IMDG	3
IATA	3

14.4. Packaging group

ADR	III
RID	III
ADNR	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADNR	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
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	Tunnelcode: (D/E)
RID	not applicable
ADNR	not applicable
IMDG	not applicable
IATA	not applicable

When transporting as a set (component A and B) then the following dangerous good classification is used: UN 3269 Polyester resin kit, 3, III.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

VOC content < 20,00 %
(1999/13/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

R10 Flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.