

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Carbon Putty

**Product no.**

2-125-1800

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

Bodywork protector treatment. Only for professional use.

**Uses advised against**

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The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

August Handel GmbH  
Heinrich-Hertz-Str. 3b  
DE-14532 Kleinmachnow b. Berlin  
Germany  
Phone: +49 30 217333 00

**Contact person**

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**E-mail**

info@augusthandel.com

**SDS date**

2017-06-07

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Repr. 2; H361

STOT RE 1; H372

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger

**Hazard statement(s)**

Flammable liquid and vapour. (H226)  
 Causes skin irritation. (H315)  
 Causes serious eye irritation. (H319)  
 Suspected of damaging fertility or the unborn child. (H361)  
 Causes damage to organs through prolonged or repeated exposure. (H372)

**Safety statement(s)**

**General** If medical advice is needed, have product container or label at hand. (P101).  
 Keep out of reach of children. (P102).  
**Prevention** Do not breathe vapours. (P260).  
**Response** Get medical advice/attention if you feel unwell. (P314).  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).  
**Storage** Store locked up. (P405).  
**Disposal** Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**

styrene

**2.3. Other hazards**

This product contains teratogenic substances, which may cause long-term adverse effects to the unborn foetus.

This product contains substances that may cause adverse effects to the reproductive system.  
 This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

**Additional labelling**

Do not use in paint spraying equipment.

**Additional warnings**

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

**VOC**

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**SECTION 3: Composition/information on ingredients****3.1/3.2. Substances/Mixtures**

NAME:	styrene
IDENTIFICATION NOS.:	CAS-no: 100-42-5 EC-no: 202-851-5 Index-no: 601-026-00-0
CONTENT:	10-25%%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT RE 1, Skin Irrit. 2, Eye Irrit. 2, Repr. 2 H226, H315, H319, H332, H361, H372
NOTE:	S
NAME:	ethyl acetate
IDENTIFICATION NOS.:	CAS-no: 141-78-6 EC-no: 205-500-4 Index-no: 607-022-00-5
CONTENT:	0,1-1%%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336
NOTE:	S

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.  
 S = Organic solvent

**Other information**

ATEmix(inhale, vapour) > 20  
 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = > 1 - 1,32  
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = > 1 - 1,2

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

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.  
 The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor

if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### **Inhalation**

Bring the person into fresh air and stay with him.

#### **Skin contact**

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

#### **Eye contact**

Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

#### **Ingestion**

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### **Burns**

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

#### **Information to medic**

Bring this safety data sheet.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

#### **5.3. Advice for firefighters**

No specific requirements.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

#### **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### **6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

#### Storage temperature

Room temperature 18 to 23°C

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

ethyl acetate

Long-term exposure limit (8-hour TWA reference period): 200 ppm | - mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 400 ppm | - mg/m<sup>3</sup>

styrene

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 430 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 250 ppm | 1080 mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL ( styrene ): 406 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ( styrene ): 289 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ( styrene ): 306 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL ( styrene ): 85 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ( ethyl acetate ): 63 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ( ethyl acetate ): 1468 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL ( ethyl acetate ): 734 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL ( ethyl acetate ): 734 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL ( ethyl acetate ): 1468 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

PNEC ( styrene ): 0,028 mg/l

Exposure: Freshwater

PNEC ( styrene ): 0,0028 mg/l

Exposure: Marine water

PNEC ( styrene ): 0,04 mg/l

Exposure: Intermittent release

PNEC ( styrene ): 0,614 mg/kg

Exposure: Freshwater sediment

PNEC ( styrene ): 0,0614 mg/kg

Exposure: Marine water sediment  
 PNEC ( styrene ): 0,2 mg/kg  
 Exposure: Soil  
 PNEC ( styrene ): 5 mg/l  
 Exposure: Sewage Treatment Plant  
 PNEC ( ethyl acetate ): 0,24 mg/l  
 Exposure: Freshwater  
 PNEC ( ethyl acetate ): 0,024 mg/l  
 Exposure: Marine water  
 PNEC ( ethyl acetate ): 1,65 mg/l  
 Exposure: Intermittent release  
 PNEC ( ethyl acetate ): 1,15 mg/kg  
 Exposure: Freshwater sediment  
 PNEC ( ethyl acetate ): 0,115 mg/kg  
 Exposure: Marine water sediment  
 PNEC ( ethyl acetate ): 650 mg/l  
 Exposure: Sewage Treatment Plant

## 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Observe general occupational hygiene standards.

### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Exhaust air that contains the substances shall not be recirculated. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and - showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment



### Generally

Use only CE marked protective equipment.

### Respiratory Equipment

Recommended: Combination filter A2P3. Class 2/3. Brown/White

### Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

### Hand protection

Recommended: Natural rubber (latex )

### Eye protection

No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	Pasta
Colour	Black
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm³)	1,82-1,84

**Phase changes**

Melting point (°C)

No data available.

Boiling point (°C)

145

Vapour pressure (25°C)

6,7 hPa

Decomposition temperature (°C)

No data available.

Evaporation rate (n-butylacetate = 100)

No data available.

**Data on fire and explosion hazards**

Flash point (°C)

31

Ignition (°C)

No data available.

Auto flammability (°C)

No data available.

Explosion limits (% v/v)

1,1 - 6,1 v/v%

Explosive properties

No data available.

**Solubility**

Solubility in water

Insoluble

n-octanol/water coefficient

No data available.

**9.2. Other information**

Solubility in fat (g/L)

No data available.

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

No data available

**10.2. Chemical stability**

The product is stable under the conditions, noted in the section "Handling and storage".

**10.3. Possibility of hazardous reactions**

Nothing special

**10.4. Conditions to avoid**

Avoid static electricity.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

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

Substance

Species

Test

Route of exposure

Result

ethyl acetate

Rat

LD50

Oral

6100 mg/kg

ethyl acetate

Rabbit

LD50

Dermal

&gt; 20000 mg/kg

ethyl acetate

Rat

LC50

Inhalation

58 mg/l

styrene

Rat

LD50

Oral

5000 mg/kg

styrene

Rat

LC50

Inhalation

11,8 mg/l

styrene

Rat

LD50

Dermal

&gt; 2000 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

Data on substance: styrene

**Serious eye damage/irritation**

Causes serious eye irritation.

Data on substance: styrene

**Respiratory or skin sensitisation**

Data on substance: styrene

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**STOT-single exposure**

No data available.

#### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

No data available.

#### Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.

Reproductive toxicity: This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Duration	Result
ethyl acetate	Algae	EC50	72 h	> 100 mg/l
ethyl acetate	Daphnia	EC50	48 h	165 mg/l
ethyl acetate	Fish	LC50	96 h	212 mg/l
styrene	Fish	LC50	96 h	9 mg/l
styrene	Daphnia	EC50	48 h	4,7 mg/l
styrene	Algae	EC50	72 h	1,4 mg/l

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
No data available.			

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

Contains epoxy compounds. See information supplied by the manufacturer.

### 12.6. Other adverse effects

Nothing special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

#### Waste

EWC code

-

#### Specific labelling

-

#### Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

14.1. UN number 1866



14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	3
14.4. Packing group	III
Notes	-
Tunnel restriction code	D/E

**IMDG**

UN-no.	1866
Proper Shipping Name	RESIN SOLUTION
Class	3
PG*	III
EmS	F-E,S-E
MP**	No
Hazardous constituent	Flammable Liquids

**IATA/ICAO**

UN-no.	1866
Proper Shipping Name	RESIN SOLUTION
Class	3
PG*	III

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

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

No data available

(\*) Packing group

(\*\*) Marine pollutant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education**

-

**Additional information****Sources**

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information****Full text of H-phrases as mentioned in section 3**

H225 - Highly flammable liquid and vapour.



H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of damaging fertility or the unborn child.

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

**The full text of identified uses as mentioned in section 1**

-

**Additional label elements**

-

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

JW

**Date of last essential change**

**(First cipher in SDS version)**

2017-06-07

**Date of last minor change**

**(Last cipher in SDS version)**

2017-06-07