

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

666
Version 2.0

Siemaplast 2325-50
Revision date 13-Nov-2019

Print date 27-Nov-2019

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

1.1 Product identifier

* 666 Siemaplast 2325-50

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

* **Relevant identified uses**

* Adhesives, sealants

1.3 Details of the supplier of the safety data sheet

Supplier

Siema Vertriebsgesellschaft mbH
Ostmerheimer Strasse 516 Telephone: +492216307990
51109 Köln Telefax: +4922163079950
Deutschland E-mail: info@siema-vertrieb.de
Website: www.siema-vertrieb.de

Dept. responsible for information

E-mail (competent person) labor@renia.com

1.4 Emergency telephone number

Emergency telephone number Grimme: +49-221-630799-17
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

* **Classification according to Regulation (EC) No 1272/2008 [CLP]**

* The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

* Flam. Liq. 2; H225

* Eye Irrit. 2; H319

* STOT SE 3 Narcotic effects ; H336

* Skin Sens. 1; H317

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



* **Signal word**

Danger

* **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H317 May cause an allergic skin reaction.

* **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P235 Keep cool.

P261 Avoid breathing vapours.

P280 Wear protective gloves and eye/face protection.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

* **Hazard components for labelling**

Acetone

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Stabilisator

* **Supplemental Hazard information (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

* **Description**

* Polyurethane-Prepolymers with stabilizers in a mixture of organic solvents

* **Hazardous ingredients**

CAS No. EC No. INDEX No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	Wt %
67-64-1 200-662-2 606-001-00-8	Acetone 01-2119471330-49 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	50,0 - 75,0
141-78-6 205-500-4 607-022-00-5	Ethyl acetate 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	10,0 - 15,0
1065336-91-5 915-687-0 -	Stabilisator 01-2119491304-40-0000 Skin Sens. 1A H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,1 - 1,0

* **Remark**

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

* **General information**

* Remove affected person from the danger area and lay down.

* **Following inhalation**

* Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

* **Following skin contact**

* Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

* **After eye contact**

* After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

* **After ingestion**

* Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

* **Self-protection of the first aider**

* First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

* **Symptoms**

* dizziness. Nausea.

4.3 Indication of any immediate medical attention and special treatment needed

* Treat symptomatically. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Where appropriate artificial ventilation.

SECTION 5: Firefighting measures

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5.1 Extinguishing media

* **Suitable extinguishing media**

* Carbon dioxide (CO₂), alcohol resistant foam, Extinguishing powder, ABC-powder, spray mist, (water), Dry sand.

* **Unsuitable extinguishing media**

* Full water jet. Strong water jet.

5.2 Special hazards arising from the substance or mixture

* Flammable. Vapours can form explosive mixtures with air. Do not inhale explosion and combustion gases. In case of fire may be liberated: Hydrogen chloride (HCl). Burning produces heavy smoke.

5.3 Advice for firefighters

* In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

* Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Remove product from area of fire. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

* Avoid contact with eyes and skin. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.

6.2 Environmental precautions

* Do not allow to enter into surface water or drains. Cover drains.

6.3 Methods and material for containment and cleaning up

* Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

* Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

* **Advices on safe handling**

* This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

* **Advices on general occupational hygiene**

* When using do not eat, drink, smoke, sniff. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Before starting work, apply solvent-resistant skincare preparations.

* **Further information**

* Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours/aerosols must be exhausted directly at the point of origin. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

* **Requirements for storage rooms and vessels**

* Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Ensure adequate ventilation of the storage area.

* **Hints on joint storage**

* Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances. Store packaging and ignitable materials separately. Keep away from food, drink and animal feedingstuffs.

* **Further information on storage conditions**

* Floors should be impervious, resistant to liquids and easy to clean. Store small packages in a suitable, robust cabinet.

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7.3 Specific end use(s)

* Adhesives, sealants, Roller application or brushing of adhesive and other coating.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

* **Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
* 67-64-1	Acetone	WEL	1.21 / 3.62 (-) mg/m ³
* 141-78-6	Ethyl acetate	WEL	730 / 1.46 (-) mg/m ³

Additional information

Long-term: long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

* **Biological limit values**

* No data available

* **DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
* 67-64-1	Acetone	DNEL acute inhalative (systemic)	2,420 mg/l
* 67-64-1	Acetone	DNEL long-term inhalative (systemic)	1,210 mg/l
* 67-64-1	Acetone	DNEL long-term dermal (systemic)	186 mg/kg
* 141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	1.468 mg/l
* 141-78-6	Ethyl acetate	DNEL acute inhalative (local)	1.468 mg/l
* 141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	63 mg/kg

* **DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
* 67-64-1	Acetone	DNEL long-term dermal (systemic)	62 mg/kg
* 67-64-1	Acetone	DNEL long-term inhalative (systemic)	200 mg/l
* 67-64-1	Acetone	DNEL long-term oral (repeated)	62 mg/kg
* 141-78-6	Ethyl acetate	DNEL acute inhalative (systemic)	0.734 mg/l
* 141-78-6	Ethyl acetate	DNEL long-term inhalative (local)	0.734 mg/l
* 141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	37 mg/kg
* 141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	0.037 mg/l
* 141-78-6	Ethyl acetate	DNEL long-term oral (repeated)	4.5 mg/kg
* 141-78-6	Ethyl acetate	DNEL acute inhalative (local)	0.367 mg/l

* **PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
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*	67-64-1	Acetone	PNEC aquatic, freshwater	10.6 mg/l
*	67-64-1	Acetone	PNEC aquatic, marine water	1.06 mg/l
*	67-64-1	Acetone	PNEC sediment, freshwater	30.4 mg/l
*	67-64-1	Acetone	PNEC sediment, marine water	3.04 mg/l
*	67-64-1	Acetone	PNEC soil, marine water	29.5 mg/l
*	141-78-6	Ethyl acetate	PNEC aquatic, freshwater	0.26 mg/l
*	141-78-6	Ethyl acetate	PNEC aquatic, marine water	0.026 mg/l
*	141-78-6	Ethyl acetate	PNEC sediment, freshwater	0.34 mg/kg
*	141-78-6	Ethyl acetate	PNEC sediment, marine water	0.034 mg/kg
*	141-78-6	Ethyl acetate	PNEC soil, freshwater	0.22 mg/kg

8.2 Exposure controls

* If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

* **Personal protection equipment**

* **Respiratory protection**

* If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device (EN 14387) Use the following filter types for cleaning waste gases:

* **Hand protection**

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0.5 mm

* Breakthrough time (maximum wearing time): 1 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

* **Eye/face protection**

* Wear closely fitting protective glasses in case of splashes.

* **Body protection**

* When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Wear anti-static footwear and clothing

* **Environmental exposure controls**

* Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

* Physical state liquid
 * Colour transparent

Safety characteristics

* Odour characteristic
 * Odour threshold not determined
 * pH not determined
 * Melting point/freezing point not determined
 * Initial boiling point and boiling range 56 °C
 * Flash point -19 °C
 * Evaporation rate at 20°C not determined
 * Burning time (s) not applicable
 * Lower explosion limit at 20°C 2.1 Vol-%

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* Upper explosion limit at 20°C	14.3 Vol-%
* Vapour pressure at 20°C	233 mbar
* Density at 20°C	0.86 kg/l
* Water solubility (g/L) at 20°C	not determined
* Partition coefficient: n-octanol/water	see section 12
* Ignition temperature in °C	460 °C
* Decomposition temperature	325 °C
*	Source: Stabilisator
* Viscosity	2,000 mPas
* Explosive properties	not relevant
* Oxidising properties	not relevant

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

- * No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

- * The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

10.3 Possibility of hazardous reactions

- * Gases / vapours, highly flammable. Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

- * Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

- * Acid, concentrated, Oxidising agent, strong.

10.6 Hazardous decomposition products

- * Thermal decomposition can lead to the escape of irritating gases and vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

* **Acetone**

LD50: oral (Rat): = 5,800 mg/kg

- * LD50: dermal (Rabbit): > 15,800 mg/kg

LC50: inhalative (Rat): = 76 ppmV (4 h)

* **Ethyl acetate**

LD50: oral (Rat): > 5,620 mg/kg

- * LD50: dermal (Rabbit): > 18,000 mg/kg

LC50: inhalative (Rat): = 56 mg/l (4 h)

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

- * May cause an allergic skin reaction.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

* **Practical experience/human evidence**

- * Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

Acute (short-term) fish toxicity

- * **Acetone**
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 5,540 mg/l (96 h)

Ethyl acetate

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 230 mg/l (96 h)

Acute (short-term) toxicity to aquatic algae and cyanobacteria

- * **Acetone**
ErC50: = 100 mg/l (96 h)

- * **Ethyl acetate**
LC50: (Desmodesmus subspicatus): = 5,600 mg/l (48 h)

Acute (short-term) toxicity to crustacea

- * **Acetone**
EC50 (Daphnia pulex (water flea)): = 8,800 mg/l (48 h)

Ethyl acetate

EC50 (Daphnia magna (Big water flea)): = 165 mg/l (48 h)

12.2 Persistence and degradability

- * No information available.

12.3 Bioaccumulative potential

- * Partition coefficient: n-octanol/water = -0.24
* Partition coefficient: n-octanol/water = 0.68
* Partition coefficient: n-octanol/water = 2.57

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- * **Product/Packaging disposal**

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- * Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
- * **Waste codes/waste designations according to EWC/AVV**
- * 080409 - Waste adhesives and sealants containing organic solvents or other dangerous substances
- * **Other disposal recommendations**
- * Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number

UN 1133

14.2 UN proper shipping name

- * **Land transport (ADR/RID)**
- * KLEBSTOFFE (enthält Aceton, Ethylacetat)
- * **Sea transport (IMDG)**
- * Adhesives (contain Acetone, Ethyl acetate)
- * **Air transport (ICAO-TI / IATA-DGR)**
- * Adhesives (contain Acetone, Ethyl acetate)

14.3 Transport hazard class(es)

- * Land transport (ADR/RID) 3
- * Sea transport (IMDG) 3
- * Air transport (ICAO-TI / IATA-DGR) 3

14.4 Packing group

- * Land transport (ADR/RID) II
for packages < = 450 litres: III
- * Sea transport (IMDG) II
for packages < 30 litres: III
- * Air transport (ICAO-TI / IATA-DGR) II
for packages < 30 litres: III

14.5 Environmental hazards

Land transport (ADR/RID) not applicable
Sea transport (IMDG) not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

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

No transport as bulk according to IBC Code.

14.8 Additional information

- * **Land transport (ADR/RID)**
- * tunnel restriction code: D/E
- * for packages < = 450 litres: E
- * **Sea transport (IMDG)**
- * Segregation group: IMDG-Code segregation group not applicable
- * EmS-Code: F-E, S-D
- * **Air transport (ICAO-TI / IATA-DGR)**
- * Additional information: No data available

SECTION 15: Regulatory information

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

EU legislation

- * **Restrictions of occupation**
- * Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

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- * **Directive 2010/75/EU on industrial emissions**
- * VOC-value (in g/L): 706.116
- * **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**
- * **Hazard categories / Named dangerous substances**
- * P5c Flammable liquids
Quantity 1: 5,000t; Quantity 2: 50,000t
- * **National regulations**

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

REACH No.	Substance name
* 01-2119471330-49	Acetone
* 01-2119475103-46	Ethyl acetate
* 01-2119491304-40-0000	Stabilisator

SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

- H225 Highly flammable liquid and vapour.
- * H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- * H400 Very toxic to aquatic life.
- * H410 Very toxic to aquatic life with long lasting effects.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

- * Flam. Liq. 2 On basis of test data.
- * Eye Irrit. 2 Calculation method.
- * STOT SE 3 Narcotic effects Calculation method.
- * Skin Sens. 1 Calculation method.

Abbreviations and acronyms

- * For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Indication of changes

- * Data changed compared with the previous version