

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**

67X  
Version 4.0

Siema Sohlenlöser 10X  
Revision date 05-Apr-2022

Print date 12-May-2022

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

**1.1 Product identifier**

**Trade name/designation**

67X Siema Sohlenlöser 10X  
UFI: 49MK-E0UA-2002-PCPK

**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

**Department responsible for information**

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

**1.4 Emergency telephone number**

24 hr. emergency phone number: +49-221-630799-17

**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; flammable liquids; H225 Highly flammable liquid and vapour.  
Asp. Tox. 1; Aspiration hazard; H304 May be fatal if swallowed and enters airways.  
Repr. 2; Reproductive toxicity; H361d Suspected of damaging the unborn child.  
STOT RE 2; STOT-repeated exposure; H373 May cause damage to organs through prolonged or repeated exposure.  
STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.  
Skin Irrit. 2; Skin corrosion/irritation; H315 Causes skin irritation.

**2.2 Label elements**

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

**Hazard pictograms**

\*



GHS02 GHS07 GHS08

**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H336 May cause drowsiness or dizziness.  
H315 Causes skin irritation.

\*

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapours.  
P280 Wear protective gloves and eye/face protection.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P403 + P235 Store in a well-ventilated place. Keep cool.

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**Hazard components for labelling**

\* toluene

**Supplemental hazard information**

not applicable

**2.3 Other hazards**

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

**SECTION 3: Composition/information on ingredients.**

**3.2 Mixtures**

**Description**

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]	weight-%
* 108-88-3 203-625-9 601-021-00-3	<b>toluene</b> 02-2119752507-34-0000 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Repr. 2 H361d / STOT RE 2 H373	75,0 < 100,0
* 141-78-6 205-500-4 607-022-00-5	<b>ethyl acetate</b> 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE (oral): > 5.620 mg/kg ATE (dermal): > 18.000 mg/kg ATE (inhalative): = 56 mg/L (4 h)	5,0 < 10,0

**Remark**

Full text of H- and EUH-statements: see section 16. Full text of H-phrases: 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. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Medical treatment necessary.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

**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.

\* **Following ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

**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. headache. Unconsciousness.

**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. Subsequent observance for pneumonia and lung oedema.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

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

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**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.

**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. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. 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 (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. 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 10 °C and 30 °C.

**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.

**7.3 Specific end use(s)**

Solvents/Thinner.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
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*	141-78-6	ethyl acetate	WEL	734 / 1.468 ( - ) mg/m <sup>3</sup>
*	108-88-3	toluene	WEL	191 / 384 ( - ) mg/m <sup>3</sup>

**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
*	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
*	108-88-3	toluene	DNEL acute inhalative (local)	0,343 mg/L
*	108-88-3	toluene	DNEL acute inhalative (systemic)	0,384 mg/L
*	108-88-3	toluene	DNEL long-term inhalative (local)	0,192 mg/L
*	108-88-3	toluene	DNEL long-term inhalative (systemic)	0,192 mg/L
*	108-88-3	toluene	DNEL long-term dermal (systemic)	384 mg/kg

**DNEL Consumer**

	CAS No.	Substance name	DNEL type	DNEL value
*	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
*	108-88-3	toluene	DNEL long-term inhalative (local)	0,226 mg/L
*	108-88-3	toluene	DNEL acute inhalative (systemic)	0,226 mg/L
*	108-88-3	toluene	DNEL long-term inhalative (systemic)	0,056 mg/L
*	108-88-3	toluene	DNEL long-term dermal (systemic)	226 mg/kg
*	108-88-3	toluene	DNEL long-term oral (repeated)	8,13 mg/L

**PNEC**

	CAS No.	Substance name	PNEC type	PNEC Value
*	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
*	108-88-3	toluene	PNEC aquatic, freshwater	0,68 mg/L
*	108-88-3	toluene	PNEC sediment, freshwater	16,38 mg/kg
*	108-88-3	toluene	PNEC soil, freshwater	2,89 mg/kg
*	108-88-3	toluene	PNEC sewage treatment plant (STP)	13,61 mg/L

**8.2 Exposure controls**

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

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**Personal protection equipment**

**Respiratory protection**

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

**Hand protection**

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material:  $\geq 0,4$  mm

- \* Breakthrough time:  $\geq 480$  min

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**

Physical state	liquid
Colour	transparent
Odour	characteristic
pH at 20 °C	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	76 °C
Flash point	-1 °C
flammability	not applicable
Lower explosion limit at 20°C	1,2 Vol-%
Upper explosion limit at 20°C	7 Vol-%
Vapour pressure at 20°C	29 mbar
Relative vapour density	not applicable
Density at 20 °C	0,867 kg/l
Water solubility at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	535 °C
Decomposition temperature	not determined
Dynamic viscosity at 20 °C	5,53 mPas

**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**

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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 hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

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

\* **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**

Causes skin irritation.

**Serious eye damage/eye irritation**

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

**Respiratory or skin sensitisation**

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

\* **Overall Assessment on CMR properties**

Suspected of damaging the unborn child.

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**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, Dizziness, 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.

**11.2 Information on other hazards**

\* **Endocrine disrupting properties**

- \* This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information**

**12.1 Toxicity**

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

**Acute (short-term) fish toxicity**

\* **ethyl acetate**

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

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

\* **ethyl acetate**

LC50: (Desmodesmus subspicatus): = 5.600 mg/L (48 h)

**Acute (short-term) toxicity to crustacea**

\* **ethyl acetate**

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

**12.2 Persistence and degradability**

No information available.

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**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water = 0,68

Partition coefficient: n-octanol/water = 2,65

**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\* Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**\* Product/Packaging disposal**

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**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Other disposal recommendations**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

UN 1993

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

\* Flammable liquid, n.o.s. (toluene, ethyl acetate)

**Sea transport (IMDG)**

\* Flammable liquid, n.o.s. (contain toluene, ethyl acetate)

**Air transport (ICAO-TI / IATA-DGR)**

\* Flammable liquid, n.o.s. (contain toluene, 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

Sea transport (IMDG) II

Air transport (ICAO-TI / IATA-DGR) II

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

No transport as bulk according to IBC Code.

**14.8 Additional information**

**Land transport (ADR/RID)**



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- \* tunnel restriction code: D/E  
\* Limited quantity (LQ): 1,5 Liter  
Hazard identification number (Kemler No.): 33

**Sea transport (IMDG)**

- \* EmS-No.: F-E, S-E  
\* Limited quantity (LQ): 1,5 Liter

**Air transport (ICAO-TI / IATA-DGR)**

not applicable

**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 or stricter national regulations, if applicable. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.  
\* **Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**  
\* VOC-value: 52 g/l

**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**

- \* Observe in addition any 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	CAS No. EC No.
*	01-2119475103-46	ethyl acetate	141-78-6 205-500-4
*	02-2119752507-34-0000	toluene	108-88-3 203-625-9

**SECTION 16: Other information**

**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

- H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
\* EUH066 Repeated exposure may cause skin dryness or cracking.

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

- Flam. Liq. 2 On basis of test data.  
Asp. Tox. 1 Calculation method.  
Repr. 2 Calculation method.  
STOT RE 2 Calculation method.  
STOT SE 3 Narcotic effects Calculation method.  
Skin Irrit. 2 Calculation method.

**Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
OEL: Occupational Exposure Limit Value  
BLV: Biological limit values  
CAS: Chemical Abstracts Service



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CLP: Classification, Labelling and Packaging  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
DIN: German Institute for Standardization / German industrial standard  
DNEL: Derived No-Effect Level  
EAKV: European Waste Catalogue Directive  
EC: Effective Concentration  
EC: European Community  
EN: European Standard  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG Code: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
LC: Lethal Concentration  
LD: Lethal Dose  
MWC: Maximum workplace concentration  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Cooperation and Development  
PBT: persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version