

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

672
Version 3.0

Siema Lösungsmittel 2002
Revision date 04-Apr-2022

Print date 16-May-2022

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

1.1 Product identifier

Trade name/designation

672 Siema Lösungsmittel 2002
UFI: PQU1-90KT-E001-CC14

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.
- * Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation.
- * STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.

2.2 Label elements

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

Hazard pictograms



GHS02 GHS07

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

* **Precautionary statements**

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

- * butanone; ethyl methyl ketone

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

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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-%
* 78-93-3 201-159-0 606-002-00-3	butanone; ethyl methyl ketone 01-2119457290-43 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE= 10.470 mg/kg ATE= 5.000 mg/kg ATE (inhalative): > 20 mg/L (4 h) Substance with a common (EC) occupational exposure limit value.	50,0 < 75,0
* 67-64-1 200-662-2 606-001-00-8	acetone; propan-2-one; propanone 01-2119471330-49 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE (oral): = 5.800 mg/kg ATE (dermal): > 15.800 mg/kg ATE (inhalative): = 76 ppmV (4 h) Substance with a common (EC) occupational exposure limit value.	15,0 < 20,0
* 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 / EUH066 ATE (oral): > 5.620 mg/kg ATE (dermal): > 18.000 mg/kg ATE (inhalative): = 56 mg/L (4 h) Substance with a common (EC) occupational exposure limit value.	15,0 < 20,0

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. 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.

* **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. 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 discharge.

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. 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.

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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*	67-64-1	acetone; propan-2-one; propanone	WEL	1.210 / 3.620 (-) mg/m ³
*	78-93-3	butanone; ethyl methyl ketone	WEL	600 / 899 (-) mg/m ³
*	141-78-6	ethyl acetate	WEL	734 / 1.468 (-) 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; propan-2-one; propanone	DNEL acute inhalative (systemic)	2.420 mg/L
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term inhalative (systemic)	1.210 mg/L
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term dermal (systemic)	186 mg/kg
*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term dermal (systemic)	1.161 mg/kg bw/day
*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term inhalative (systemic)	600 mg/m ³
*	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; propan-2-one; propanone	DNEL long-term dermal (systemic)	62 mg/kg
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term inhalative (systemic)	200 mg/L
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term oral (repeated)	62 mg/kg
*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term oral (repeated)	31 mg/kg bw/day
*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term dermal (systemic)	412 mg/kg bw/day
*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term inhalative (systemic)	106 mg/m ³
*	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
*	67-64-1	acetone; propan-2-one; propanone	PNEC aquatic, freshwater	10,6 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC aquatic, marine water	1,06 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC sediment, freshwater	30,4 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC sediment, marine water	3,04 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC soil, marine water	29,5 mg/L
*	78-93-3	butanone; ethyl methyl ketone	PNEC sewage treatment plant (STP)	709 mg/L

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*	78-93-3	butanone; ethyl methyl ketone	PNEC aquatic, freshwater	55,8 mg/L
*	78-93-3	butanone; ethyl methyl ketone	PNEC soil, freshwater	22,5 mg/kg
*	78-93-3	butanone; ethyl methyl ketone	PNEC sediment, freshwater	284,7 mg/kg
*	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. 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: ≥ 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	56 °C
Flash point	-19 °C
flammability	not determined
Lower explosion limit at 20°C	1,8 Vol-%
Upper explosion limit at 20°C	13 Vol-%
Vapour pressure at 20°C	233 mbar
Relative vapour density	not applicable
Density at 20 °C	0,819 kg/l
Water solubility at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	460 °C
Decomposition temperature	not determined
Dynamic viscosity at 20 °C	5,53 mPas

9.2 Other information

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

Acute toxicity

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

* acetone; propan-2-one; propanone

LD50: oral (Rat): = 5.800 mg/kg

LD50: dermal (Rabbit): > 15.800 mg/kg

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

* butanone; ethyl methyl ketone

LD50: (Rat): = 10.470 mg/kg; (OECD 401)

LD50: (Rabbit): = 5.000 mg/kg; (OECD 402)

* LC50: inhalative (Rat): > 20 mg/L (4 h); (OECD 403)

* 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

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

* Overall Assessment on CMR properties

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

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- * 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

- * **acetone; propan-2-one; propanone**
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 5.540 mg/L (96 h)

- * **butanone; ethyl methyl ketone**
LC50: (Leuciscus idus (golden orfe)): > 100 mg/L (48 h)

- * **ethyl acetate**
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 230 mg/L (96 h)

Acute (short-term) toxicity to algae and cyanobacteria

- * **acetone; propan-2-one; propanone**
ErC50: = 100 mg/L (96 h)
- * **butanone; ethyl methyl ketone**
EC50 (Desmodesmus subspicatus): > 100 mg/L

- * **ethyl acetate**
LC50: (Desmodesmus subspicatus): = 5.600 mg/L (48 h)

Acute (short-term) toxicity to crustacea

- * **acetone; propan-2-one; propanone**
EC50 (Daphnia pulex (water flea)): = 8.800 mg/L (48 h)
- * **butanone; ethyl methyl ketone**
EC50 (Daphnia magna (Big water flea)): > 100 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

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

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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. (butanone; ethyl methyl ketone, acetone; propan-2-one; propanone)

Sea transport (IMDG)

- * Flammable liquid, n.o.s. (contain butanone; ethyl methyl ketone, acetone; propan-2-one; propanone)

Air transport (ICAO-TI / IATA-DGR)

- * Flammable liquid, n.o.s. (contain butanone; ethyl methyl ketone, acetone; propan-2-one; propanone)

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)

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: 819 g/l

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Hazard categories / Named dangerous substances

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* 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.
* 01-2119471330-49	acetone; propan-2-one; propanone	67-64-1 200-662-2
* 01-2119457290-43	butanone; ethyl methyl ketone	78-93-3 201-159-0
* 01-2119475103-46	ethyl acetate	141-78-6 205-500-4

SECTION 16: Other information

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

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
* 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.
Eye Irrit. 2 Calculation method.
STOT SE 3 Narcotic Calculation method.
effects

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
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