

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.08.2019

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Revision: 13.08.2019

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

- **1.1 Product identifier**
 - **Trade name:** *CAM WELD SPRAY PACK / CW1*
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against** *Not determined*
 - **Application of the substance / the mixture** *Anticorrosion additive*
 - **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
*Sydney Automotive Paints and Equipment Pty Ltd
Unit A4, 366 Edgar Street
Condell Park, NSW, 2200
Phone: +61 2 9772 9000; Fax: +61 2 9772 9001; reception@sape.com.au*
 - **Further information obtainable from:**
*Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de*
 - **1.4 Emergency telephone number:**
*GPoison Information Centre Australia
Phone: 13 11 26*
-

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

STOT RE 2 H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.

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GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02



GHS07



GHS08



GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Reaction mass of ethylbenzene and xylene
acetone

Hydrocarbons, C9, aromatics
butanone

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P280 Wear protective gloves / eye protection / face protection.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 7440-66-6 EINECS: 231-175-3 Reg.nr.: 01-2119467174-37	zinc powder -zinc dust (stabilized) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25-50%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether ⚠ Flam. Gas 1, H220; Press. Gas C, H280	10-<20%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10-<20%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32 01-2119486136-34	Reaction mass of ethylbenzene and xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-<20%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	3-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	3-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	3-<10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	3-<10%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<3%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	1-<3%

Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

Hazchem: 2YE

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Carbon monoxide and carbon dioxide

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Remove undamaged containers from the danger zone.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

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*Do not inhale gases / fumes / aerosols.**Use respiratory protective device against the effects of fumes/dust/aerosol.**Avoid contact with the eyes and skin.***· 6.2 Environmental precautions:***In case of seepage into the ground inform responsible authorities.**Do not allow to enter sewers/ surface or ground water.**Inform respective authorities in case of seepage into water course or sewage system.***· 6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Ensure adequate ventilation.**Dispose contaminated material as waste according to item 13.**Do not flush with water or aqueous cleansing agents***· 6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***SECTION 7: Handling and storage****· 7.1 Precautions for safe handling***Open and handle receptacle with care.**Keep away from heat and direct sunlight.**Ensure good ventilation/exhaustion at the workplace.**Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).**Do not inhale gases / fumes / aerosols.**Avoid contact with the eyes and skin.***· Information about fire - and explosion protection:***Fumes can combine with air to form an explosive mixture.**Do not spray onto a naked flame or any incandescent material.**Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:***Store in a cool location.**Observe official regulations on storing packagings with pressurised containers.***· Information about storage in one common storage facility: Store away from foodstuffs.****· Further information about storage conditions:***Store in cool, dry conditions in well sealed receptacles.**Store receptacle in a well ventilated area.**Keep container tightly sealed.**Protect from heat and direct sunlight.***· 7.3 Specific end use(s) No further relevant information available.****SECTION 8: Exposure controls/personal protection****· Additional information about design of technical facilities: No further data; see item 7.**

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· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

115-10-6 dimethyl ether

<i>WEL (Great Britain)</i>	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
<i>IOELV (EU)</i>	Long-term value: 1920 mg/m ³ , 1000 ppm

67-64-1 acetone

<i>WEL (Great Britain)</i>	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
<i>IOELV (EU)</i>	Long-term value: 1210 mg/m ³ , 500 ppm

Reaction mass of ethylbenzene and xylene

<i>WEL (Great Britain)</i>	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
<i>IOELV (EU)</i>	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

106-97-8 butane

<i>WEL (Great Britain)</i>	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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78-93-3 butanone

<i>WEL (Great Britain)</i>	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
<i>IOELV (EU)</i>	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm

· DNELs

67-64-1 acetone

<i>Oral</i>	Long-term exposure - systemic effects	62 mg/kg bw/day (general population)
<i>Dermal</i>	Long-term exposure - systemic effects	62 mg/kg bw/day (general population)
<i>Inhalative</i>	Long-term exposure - systemic effects	186 mg/kg bw/day (worker)
		200 mg/m ³ (general population)
		1,210 mg/m ³ (worker)
	Acute/short-term exposure - local effects	2,420 mg/m ³ (worker)

Reaction mass of ethylbenzene and xylene

<i>Oral</i>	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
<i>Dermal</i>	Long-term exposure - systemic effects	108 mg/kg bw/day (general population)
<i>Inhalative</i>		180 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	14.8 mg/m ³ (general population)
		77 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	174 mg/m ³ (general population)
		289 mg/m ³ (worker)
	Acute/short-term exposure - local effects	174 mg/m ³ (general population)

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		289 mg/m ³ (worker)
78-93-3 butanone		
Oral	Long-term exposure - systemic effects	31 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	412 mg/kg bw/day (general population) 1,161 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	106 mg/m ³ (general population) 600 mg/m ³ (worker)
Hydrocarbons, C9, aromatics		
Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population) 25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (general population) 150 mg/m ³ (worker)
1314-13-2 zinc oxide		
Oral	Long-term exposure - systemic effects	0.83 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	83 mg/kg bw/day (general population) 83 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	2.5 mg/m ³ (general population) 5 mg/m ³ (worker)

PNECs
67-64-1 acetone

PNEC aqua	10.6 mg/l (freshwater)
	1.06 mg/l (marine water)
	21 mg/l (intermittent releases)
PNEC sediment	30.4 mg/kg (freshwater)
	3.04 mg/kg (marine water)
PNEC STP	100 mg/l
PNEC soil	29.5 mg/kg

Reaction mass of ethylbenzene and xylene

PNEC aqua	0.327 mg/l (freshwater)
	0.327 mg/l (marine water)
	0.327 mg/l (intermittent releases)
PNEC sediment	12.46 mg/kg (freshwater)
	12.46 mg/kg (marine water)
PNEC STP	6.58 mg/l

78-93-3 butanone

PNEC aqua	55.8 mg/l (freshwater)
	55.8 mg/l (marine water)
	55.8 mg/l (intermittent releases)
PNEC sediment	284.74 mg/kg (freshwater)
	284.7 mg/kg (marine water)
PNEC STP	709 mg/l

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PNEC soil	22.5 mg/kg
PNEC oral	1,000 mg/kg
1314-13-2 zinc oxide	
PNEC aqua	0.0206 mg/l (freshwater) 0.0061 mg/l (marine water)
PNEC sediment	117.8 mg/kg (freshwater) 56.5 mg/kg (marine water)
PNEC STP	0.1 mg/l
PNEC soil	35.6 mg/kg (soil dw)
· Ingredients with biological limit values:	
Reaction mass of ethylbenzene and xylene	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
78-93-3 butanone	
BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

No special procedures required if all workplace limit values are continuously respected.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

· **Protection of hands:**



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

DIN EN 374

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.4 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 42 minutes (Permeation according to EN 374 Part 3: Level 2).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

DIN EN 166



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Aerosol
Colour:	Grey
Odour:	Characteristic

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** 240 °C

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower:	1.1 Vol %
Upper:	26.2 Vol %

· **Vapour pressure at 20 °C:** 4000 hPa

· **Density at 20 °C:** 1.55 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

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- **Partition coefficient: n-octanol/water:** Not determined
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Forms explosive gas mixture with air.
- **10.4 Conditions to avoid**
Danger of bursting.
> 50 °C
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

115-10-6 dimethyl ether

Inhalative	LC50 /4h	308 mg/l (rat)
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67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat) (OECD 401)
Dermal	LD 50	>15,800 mg/kg (rabbit)
Inhalative	LC50 /4h	76 mg/l (rat)

Reaction mass of ethylbenzene and xylene

Oral	LD 50	>2,000 mg/kg (rat)
Dermal	LD 50	>1,700 mg/kg (rabbit)
Inhalative	LC 50 / 4h	21.7 mg/l (rat) (Vapour)
	LC50 /4h	5,000 ppm (rat) (Gas)

74-98-6 propane

Inhalative	LC 50 / 4h	>31 mg/l (rat) (vapour)
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106-97-8 butane

Inhalative	LC 50 / 4h	>31 mg/l (rat) (vapour)
	LC50 /4h	>13,023 ppm (rat)

78-93-3 butanone

Oral	LD50	>2,193 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)
Inhalative	LC50 /4h	34 mg/m ³ (rat)

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Hydrocarbons, C9, aromatics

Oral	LD 50	3,492 mg/kg (rat) (OECD 401)
Dermal	LD 50	>3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 /4h	>6,193 mg/m ³ (rat) (OECD Guideline 403, vapour)

1314-13-2 zinc oxide

Oral	LD50	7,950 mg/kg (mouse)
	LD 50	>5,000 mg/kg (rat)
Inhalative	LC 50 / 4h	>5.7 mg/l (rat) (Dust/Mist)

75-28-5 isobutane

Inhalative	LC50 /4h	>13,023 ppm (rat) (vapour)
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· **Primary irritant effect:**· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Subacute to chronic toxicity:****67-64-1 acetone**

Oral	NOAEL	900 mg/kg (rat) (OECD 408, rat (male), 13 weeks)
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· **Additional toxicological information:** Vapours have narcotic effect.· **Sensitisation** Based on available data, the classification criteria are not met.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity** Based on available data, the classification criteria are not met.· **Reproductive toxicity** Based on available data, the classification criteria are not met.· **STOT-single exposure**

May cause drowsiness or dizziness.

· **STOT-repeated exposure**

May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****115-10-6 dimethyl ether**

EC50/48h	>4.4 mg/l (daphnia magna)
LC50/96h	>4.1 mg/l (poecilia reticulata)

67-64-1 acetone

EC10	530 mg/l (Microcystis aeruginosa) (8 d)
EC10/0,5h	1,000 mg/l (bacteria)
EC50/48h	8,800 mg/l (daphnia)
LC50/96h	8,300 mg/l (Lepomis macrochirus)
	5,540 mg/l (oncorhynchus mykiss)

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NOEC	2,212 mg/l (daphnia magna) (OECD 211, 28 d)
Reaction mass of ethylbenzene and xylene	
EC50	>175 mg/l (activated slugde)
EC50/48h	3.82 mg/l (daphnia magna)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 mg/l (oncorhynchus mykiss)
NOEC	>1.3 mg/l (oncorhynchus mykiss) (56 d)
78-93-3 butanone	
EC50/48h	308 mg/l (daphnia magna)
LC50/96h	3,220 mg/l (Lepomis macrochirus) 2,993 mg/l (pimephales promelas)
Hydrocarbons, C9, aromatics	
EC50/48h	4.5 mg/l (daphnia magna)
EL50/48h	3.2 mg/l (daphnia) (OECD Guideline 202, mobility)
EL50/72h	2.9 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	9.2 mg/l (oncorhynchus aguabonita) (OECD Guideline 203) 8.2 mg/l (pimephales promelas)
NOEC	0.5 mg/l (Pseudokirchneriella subcapitata) (72h) 0.5 mg/l (daphnia magna) (48h) 2.6 mg/l (pimephales promelas) (14d)
NOELR (aqua chron.)	2,144 mg/l (daphnia magna) (21d, calculated by a computer model)
1314-13-2 zinc oxide	
M Factor	1 (acute) 1 (chronic)
EC50/48h	98 mg/l (daphnia magna)
EC50/72h	42 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	2.17 mg/l (oncorhynchus mykiss)
NOEC	0.4 mg/l (daphnia magna) (48 h)
NOEC (aqua chron.)	17 mg/l (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability
67-64-1 acetone

BSB (BOD)	1,760 mg/g
Biodegradation	91 % (OECD 301B, 28 d)

Reaction mass of ethylbenzene and xylene

Biodegradation	87.8 % (28d)
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Hydrocarbons, C9, aromatics

Biodegradation	>70 % (OECD Guideline 301 F, 28d)
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12.3 Bioaccumulative potential
67-64-1 acetone

log Pow	≤0.24
BCF	3

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Reaction mass of ethylbenzene and xylene

log Pow	>3
BCF	6-23.4

106-97-8 butane

log Pow	2.8
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78-93-3 butanone

log Kow	0.3
Kow	2

1314-13-2 zinc oxide

log Pow	2.2
BCF	60,960

Behaviour in environmental systems:

12.4 Mobility in soil

78-93-3 butanone

log Koc	0.6
Koc	3.8

Ecotoxicological effects:

Remark:

Toxic for fish
Toxic to aquatic life with long lasting effects.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste disposal key:

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging
15 01 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

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- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
· 14.3 Transport hazard class(es) · ADR	Hazchem: 2YE
	
· Class · Label	2 5F Gases. 2.1
· IMDG	
	
· Class · Label	2.1 2.1
· IATA	
	
· Class · Label	2.1 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Code	Warning: Gases. 23 F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre:

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- **Segregation Code**

Category A. For AEROSOLS with a capacity above 1 litre:
Category B. For WASTE AEROSOLS: Category C, Clear
of living quarters.

SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1
except for division 1.4. For AEROSOLS with a capacity
above 1 litre: Segregation as for the appropriate
subdivision of class 2. For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

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

Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)**

1L

- **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

- **Transport category**

2

- **Tunnel restriction code**

D

- **IMDG**

- **Limited quantities (LQ)**

1L

- **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

SECTION 15: Regulatory information

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

- **European regulations**

- **Directive 2004/42/EC 2004/42/IIB (e) (840) < 839**

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category**

E1 Hazardous to the Aquatic Environment

P3a FLAMMABLE AEROSOLS

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H220 Extremely flammable gas.

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H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Abteilung Labor

· **Contact:** Frau S. Schaller

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**