



1 Identification

- **Product identifier**
- **Trade name:** SILVER COLOR SPRAY
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Only for proper handling.
Colour spray
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MOTOREX AG
Bern-Zürich-Strasse 31, Postfach
CH-4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

A1 Accessory Imports
60-62 Burchill St.
Loganholme
4129 QLD
Australia
Phone : 07 3451 1300
- **Further information obtainable from:** msds@motorex.com
- **Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**
 
GHS02 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**
xylene
ethylbenzene
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

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Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P405 Store locked up.
 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.

· **Additional information:** Without adequate ventilation formation of explosive mixtures possible.

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

- **PBT:** Not applicable.
 · **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1, H220; Press. Gas C, H280	≥10-≤25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9	xylene Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥10-≤25%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00-1	aluminium powder (stabilised) Flam. Sol. 1, H228; Water-react. 2, H261	≥5-≤10%
EC number: 926-605-8	Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane Asp. Tox. 1, H304; STOT SE 3, H336	≥5-≤10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	≥2.5-≤7.5%
EC number: 921-024-6	Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-≤7.5%
EC number: 931-254-9	Hydrocarbons, C6, isoalkanes, <5% of n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-≤7.5%
EC number: 927-510-4	Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-≤7.5%
EC number: 919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304; STOT SE 3, H336	1-2.5%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥15 - <30%
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **General information:**

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.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

No further relevant information available.

5 Fire Fighting Measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Protective equipment:** Mouth respiratory protective device.

6 Accidental Release Measures

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

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **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.

7 Handling and Storage

· **Handling:**

· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

The recommended storage temperature is (deg.C): ≤50°C

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Keep container tightly sealed.

· **Storage class:** 2 B· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.· **Ingredients with limit values that require monitoring at the workplace:****74-98-6 propane**

WES | Asphyxiant

106-97-8 butane, pureWES | Long-term value: 1900 mg/m³, 800 ppm**1330-20-7 xylene**WES | Short-term value: 655 mg/m³, 150 ppm
Long-term value: 350 mg/m³, 80 ppm**7429-90-5 aluminium powder (stabilised)**WES | Long-term value: 10* 5** mg/m³
*metal dust; **welding, pyro powders**100-41-4 ethylbenzene**WES | Short-term value: 543 mg/m³, 125 ppm
Long-term value: 434 mg/m³, 100 ppm· **DNELs****1330-20-7 xylene**

Oral	DNEL/general population/Systemic effects/Long-term	1.6 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	180 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	108 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	77 mg/m ³ (worker)
	DNEL/Workers/Local effects/acute-short term	289 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	14.8 mg/m ³ (consumer)

7429-90-5 aluminium powder (stabilised)

Oral	DNEL/general population/Systemic effects/Long-term	3.95 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	3.72 mg/m ³ (worker)
	DNEL / Workers / Local Effects / Long-term	3.72 mg/m ³ (worker)

Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane

Oral	DNEL/general population/Systemic effects/Long-term	1,301 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	13,964 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1,377 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	5,306 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	1,131 mg/m ³ (consumer)

100-41-4 ethylbenzene

Oral	DNEL/general population/Systemic effects/Long-term	1.6 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	180 mg/kg/24h (worker)
Inhalative	DNEL / Workers / Systemic effects / Long-term	77 mg/m ³ (worker)
	DNEL/Workers/Systemic effects/acute-short term	293 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	15 mg/m ³ (consumer)

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
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Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	608 mg/m3 (consumer)

Hydrocarbons, C6, isoalkanes, <5% of n-hexane

Oral	DNEL/general population/Systemic effects/Long-term	1,301 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	13,964 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1,377 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	5,306 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	1,131 mg/m3 (consumer)

· PNECs**1330-20-7 xylene**

	PNEC / Aquatic organisms / Freshwater	0.327 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.327 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	6.58 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	12.46 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	12.46 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	2.31 mg/kg (terrestrial organisms)

7429-90-5 aluminium powder (stabilised)

	PNEC/Aquatic organisms/Sewage treatment plant/STP	20 mg/l (aquatic organisms)
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100-41-4 ethylbenzene

Oral	PNEC / Predators / Secondary poisoning	20 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	0.1 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.01-0.1 mg/l (aquatic organisms)
	PNEC/Aquatic org/intermittent releases(freshwater)	0.1 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	9.6 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	13.7 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	1.37 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	2.68 mg/kg (terrestrial organisms)

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

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

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Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

Protection of hands:



Protective gloves

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

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

Material of gloves

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

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

Eye protection: Not required.

Body protection: Protective work clothing

9 Physical and Chemical Properties

General Information

Appearance:

Form:

Liquefied gas

Colour:

Silver-coloured

Odour:

Characteristic

Odour threshold:

Not determined.

pH-value:

Not determined.

Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: Not applicable, as aerosol.

Flash point:

Not applicable, as aerosol.

Flammability (solid, gas):

Not applicable.

Auto-ignition temperature:

365 °C (DIN 51794)

Decomposition temperature:

Not determined.

Explosive properties:

Not determined.

Explosion limits:

Lower:

1.1 Vol %

Upper:

10.9 Vol %

Vapour pressure at 20 °C:

8 hPa

Density at 20 °C:

0.68 g/cm³ (ASTM D 4052)

Relative density

Not determined.

Vapour density

Not determined.

Evaporation rate

Not applicable.

Solubility in / Miscibility with

water:

Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic:

Not determined.

Kinematic:

Not determined.

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· **Other information**

No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Harmful in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:****106-97-8 butane, pure**

Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	LC50 / 4h	658 mg/l (rat)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.2-21.4 mg/l (rat)
	LOAEC	21.6 mg/l (rat)
	LOAEC	12,000 ppm (rat)

1330-20-7 xylene

Oral	LD50	5,251-5,627 mg/kg (mouse)
		3,523-4,000 mg/kg (rat)
	NOAEL	150-250 mg/kg/24h (rat)
Dermal	LOAEL	150 mg/kg/24h (rat)
	LD50	5,000 ml/kg (rabbit)
Inhalative	LD50	12,126 mg/kg (rabbit)
	LC50 / 4h	6,350-6,700 ppm (rat)

7429-90-5 aluminium powder (stabilised)

Oral	LD50	15,900 mg/kg (rat)
	NOAEL	90 mg/kg (dog) 141-302 mg/kg (rat)
Inhalative	NOAEL	200-3,225 mg/kg/24h (rat)
	LOAEL	1,000-1,075 mg/kg/24h (rat)
	LC0 / 4h	888 mg/m ³ (rat)
	LC50 / 4h	888 mg/m ³ (rat)
	LOAEC	50 mg/m ³ (rat)

Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane

Oral	LD50	25 ml/kg (rat)
Dermal	LD50	5 ml/kg (rabbit)

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Inhalative	LC50 / 4h	73,860 ppm (rat)
	NOAEC	8,992 ppm (mouse) 2,984-8,992 ppm (rat)
	LOAEC	8,992 ppm (rat)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
	NOAEL	75 mg/kg/24h (rat)
Dermal	LD50	17.8 ml/kg (rabbit)
	LD50	3,500 mg/kg (rat)
Inhalative	LC50 / 4h	17.2 mg/l (rat)
	NOAEC	75-1,000 ppm (mouse) 250-1,000 ppm (rat) 1,600 ppm (rabbit)
Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane		
Oral	LD50	8 ml/kg (rat)
Dermal	LD50	4 ml/kg (rat)
	LD50	2,800-3,100 mg/kg (rat)
Inhalative	LC50 / 4h	25.2 mg/l (rat)
	NOAEC	8.117-24.3 mg/l (rat)
Hydrocarbons, C6, isoalkanes, <5% of n-hexane		
Oral	LD50	25 ml/kg (rat)
Dermal	LD50	5 ml/kg (rabbit)
Inhalative	LC50 / 4h	73,860 ppm (rat)
	NOAEC	8,992 ppm (mouse) 2,984-8,992 ppm (rat)
	LOAEC	8,992 ppm (rat)
Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes		
Oral	LD50	8 ml/kg (rat)
Dermal	LD50	4 ml/kg (rat)
	LD50	2,800-3,100 mg/kg (rat)
	NOEL	200-2,000 mg/kg/24h (rabbit)
	NOAEL	375-3,750 mg/kg/24h (rat)
Inhalative	LC50 / 4h	23.3 mg/l (rat)
	NOAEC	9.84-20 mg/l (rat)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/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.
- **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** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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12 Ecological Information

· Toxicity

· Aquatic toxicity:

106-97-8 butane, pure

LC50	24.1-147.5 mg/l/96h (fish)
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)

1330-20-7 xylene

LC50	2.6 mg/l/96h (fish)
EC50	157 mg/l/3h (microorganisms)
EC50	96 mg/l/24h (microorganisms)
EC10	0.72-1.9 mg/l/72h (algae / cyanobacteria)
EC50	2.2-4.36 mg/l/72h (algae / cyanobacteria)
NOEC	0.44 mg/l/72h (algae / cyanobacteria)
NOEC	0.96-1.17 mg/l/7d (aquatic invertebrates)
NOEC	157 mg/l/3h (microorganisms)

7429-90-5 aluminium powder (stabilised)

LC50	22-30.6 mg/l/96h (aquatic invertebrates)
	0.078-218.6 mg/l/96h (fish)
LC50	0.0057-99.6 mg/l/48h (aquatic invertebrates)
LC50	10-19.3 mg/l/72h (fish)
EC50	0.0054-0.57 mg/l/96h (algae / cyanobacteria)
EC10	0.0002-3.155 mg/l/72h (algae / cyanobacteria)
EC50	0.0169-4.98 mg/l/72h (algae / cyanobacteria)
EC50	1.5-2.56 mg/l/48h (aquatic invertebrates)
NOEC	0.076-0.6 mg/l/21d (aquatic invertebrates)
NOEC	0.004-0.6 mg/l/72h (algae / cyanobacteria)
NOEC	22.6 mg/l/96h (aquatic invertebrates)
NOEC	0.005-0.672 mg/l/48h (aquatic invertebrates)
NOEC	0.025-56.48 mg/l/7d (fish)
NOEC	0.053-4.282 mg/l/28d (aquatic invertebrates)

Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane

LL50	9.776-12 mg/l/96h (fish)
EL50	17.06 mg/l/48h (aquatic invertebrates)
EL50	7.276 mg/l/72h (algae / cyanobacteria)
NOELR	2.187 mg/l/28d (fish)
NOELR	3.818 mg/l/21d (aquatic invertebrates)
NOELR	1.628 mg/l/72h (algae / cyanobacteria)

100-41-4 ethylbenzene

LC50	2.6 mg/l/96h (aquatic invertebrates)
	4.2-5.1 mg/l/96h (fish)
LC50	5.8 mg/l/72h (fish)
LC50	3.6 mg/l/7d (aquatic invertebrates)
LC50	7 mg/l/24h (fish)
EC50	2.4-2.8 mg/l/24h (aquatic invertebrates)

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	8-13.4 mg/l/24h (algae / cyanobacteria)
	96 mg/l/24h (microorganisms)
EC50	3.6-7.7 mg/l/96h (algae / cyanobacteria)
EC50	4.9-5.4 mg/l/72h (algae / cyanobacteria)
EC50	1.8-2.4 mg/l/48h (aquatic invertebrates)
	7.2-7.5 mg/l/48h (algae / cyanobacteria)
NOEC	3.4-4.5 mg/l/96h (algae / cyanobacteria)
	3.3 mg/l/96h (fish)
NOEC	0.96 mg/l/7d (aquatic invertebrates)

Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane

EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	11.4 mg/l/96h (fish)
LL50	15.8 mg/l/72h (fish)
LL0	5.1 mg/l/96h (fish)
EL50	3 mg/l/48h (aquatic invertebrates)
EL50	12 mg/l/24h (aquatic invertebrates)
EL50	10-100 mg/l/72h (algae / cyanobacteria)
EL0	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	2.045 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

Hydrocarbons, C6, isoalkanes, <5% of n-hexane

LL50	18.27 mg/l/96h (fish)
EL50	31.9 mg/l/48h (aquatic invertebrates)
EL50	13.56 mg/l/72h (algae / cyanobacteria)
NOELR	4.089 mg/l/28d (fish)
NOELR	7.138 mg/l/21d (aquatic invertebrates)
NOELR	3.034 mg/l/72h (algae / cyanobacteria)

Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes

EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	8.2-13.4 mg/l/96h (fish)
EL50	3.7-13 mg/l/96h (algae / cyanobacteria)
EL50	3-4.5 mg/l/48h (aquatic invertebrates)
	10-30 mg/l/48h (algae / cyanobacteria)
EL50	12 mg/l/24h (aquatic invertebrates)
	10-30 mg/l/24h (algae / cyanobacteria)
EL50	3.1-30 mg/l/72h (algae / cyanobacteria)
EL50	10 mg/l/21d (fish)
EL0	2 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	1-16 mg/l/28d (aquatic invertebrates)

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NOELR	1.534 mg/l/28d (fish)
NOELR	2.6 mg/l/21d (fish)
NOELR	0.5-10 mg/l/72h (algae / cyanobacteria)
NOELR	0.5 mg/l/48h (aquatic invertebrates)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**

· Bioaccumulative potential	
106-97-8 butane, pure	
Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
1330-20-7 xylene	
Partition coefficient	3.12-3.2 [---] (log Kow) (Bioaccumulation)
Biodegradability	87.8 % (28d) (Biodegradability) (OECD 301 F)
Hydrocarbons, C6-C7, isoalkanes, cyclenes, <5% of n-hexane	
Partition coefficient	3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	81 % (28d) (Biodegradability) (OECD 301 F)
100-41-4 ethylbenzene	
Partition coefficient	3.03-3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	2 % (28d) (Biodegradability) (OECD 301 B)
Hydrocarbons C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% n-hexane	
Biodegradability	81 % (28d) (Biodegradability) (OECD 301 F)
Hydrocarbons, C6, isoalkanes, <5% of n-hexane	
Partition coefficient	3.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	>80 % (28d) (Biodegradability) (OECD 301 F)
Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclenes	
Biodegradability	98 % (28d) (Biodegradability) (OECD 301 F)

- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water
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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · ADG, IMDG, IATA 	UN1950
<ul style="list-style-type: none"> · UN proper shipping name · ADG · IMDG · IATA 	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
<ul style="list-style-type: none"> · Transport hazard class(es) · ADG 	<div style="display: flex; align-items: center; gap: 10px;"> </div>
<ul style="list-style-type: none"> · Class · Label 	2.5F Gases. 2.1
<ul style="list-style-type: none"> · IMDG 	<div style="display: flex; align-items: center; gap: 10px;"> </div>
<ul style="list-style-type: none"> · Class · Label 	2.1 Gases. 2.1
<ul style="list-style-type: none"> · IATA 	<div style="display: flex; align-items: center; gap: 10px;"> </div>
<ul style="list-style-type: none"> · Class · Label 	2.1 Gases. 2.1
<ul style="list-style-type: none"> · Packing group · ADG, IMDG, IATA 	Not classified as hazardous for transport
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (ADG): 	No Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Code 	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: 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:
<ul style="list-style-type: none"> · Segregation Code 	Segregation as for class 9. Stow "separated from"

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	<p>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.</p>
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	

· ADG	
· 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
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

- **Australian Inventory of Industrial Chemicals**

74-98-6	propane
106-97-8	butane, pure
1330-20-7	xylene
75-28-5	isobutane
7429-90-5	aluminium powder (stabilised)
100-41-4	ethylbenzene
110-82-7	cyclohexane

- **Standard for the Uniform Scheduling of Medicines and Poisons**

1330-20-7	xylene	S6
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- **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

- **Directive 2012/18/EU**

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

- **Seveso category**

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

-AU

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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. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008. No special training instructions to ensure protection of human health and environment are required.

- **purity requirement**

- **Relevant phrases**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases.

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.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

- **Department issuing SDS:** Abteilung Produktsicherheit

- **Contact:**

- **Abbreviations and acronyms:**

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

Flam. Sol. 1: Flammable solids – Category 1

Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/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

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