


1 Identification

- **Product identifier**
- **Trade name:** INTACT MX 50 SPRAY
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Cleaning, lubrication, anticorrosive
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BUCHER AG LANGENTHAL
MOTOREX-Schmiertechnik
Bern-Zürich-Strasse 31
CH-4901 Langenthal
Telefon +41 (0)62 919 75 75

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 Extremely flammable aerosol.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

GHS02 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics
- **Hazard statements**
H222 Extremely flammable aerosol.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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- P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 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.
- **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 Flam. Gas 1, H220; Press. Gas C, H280	25-50%
EC number: 919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	≥20-≤25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas C, H280	2.5-7.5%
EC number: 934-956-3	Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics Asp. Tox. 1, H304	1-2.5%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8	2-(2-butoxyethoxy)ethanol Eye Irrit. 2A, H319	1-2.5%
CAS: 57855-77-3 EINECS: 260-991-2	Naphtalensulfonic acid, dinonyl-, calcium salts Skin Irrit. 2, H315; Eye Irrit. 2A, H319	1-2.5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane Flam. Gas 1, H220; Press. Gas C, H280	1-2.5%
EC number: 920-107-4	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Asp. Tox. 1, H304	1-2.5%
EC number: 934-954-2	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12.03% aromatics Asp. Tox. 1, H304	1-2.5%

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

aliphatic hydrocarbons	≥15 - <30%
perfumes	

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· **Additional information:**

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.
For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Remove residues with soap and water. Call a physician if irritation persists.
- **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

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** 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 item 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.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **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:** Keep container tightly sealed.

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- **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.
- **Control parameters**

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

106-97-8 butane

NES Long-term value: 1900 mg/m³, 800 ppmWES Long-term value: 1900 mg/m³, 800 ppm

74-98-6 propane

NES Asphyxiant

WES Asphyxiant

· **DNELs**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Oral DNEL/general population/Systemic effects/Long-term 300 mg/kg/24h (consumer)

Dermal DNEL / Workers / Systemic effects / Long-term 300 mg/kg/24h (worker)

Inhalative DNEL/general population/Systemic effects/Long-term 300 mg/kg/24h (consumer)

Inhalative DNEL / Workers / Systemic effects / Long-term 1,500 mg/m³ (worker)Inhalative DNEL/general population/Systemic effects/Long-term 900 mg/m³ (consumer)

Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics

Dermal DNEL / Workers / Systemic effects / Long-term 2.9 mg/kg/24h (worker)

Inhalative DNEL / Workers / Systemic effects / Long-term 16 mg/m³ (worker)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral DNEL/general population/Systemic effects/Long-term 5 mg/kg/24h (consumer)

Dermal DNEL / Workers / Systemic effects / Long-term 83 mg/kg/24h (worker)

Inhalative DNEL/general population/Systemic effects/Long-term 50 mg/kg/24h (consumer)

Inhalative DNEL / Workers / Systemic effects / Long-term 67.5 mg/m³ (worker)Inhalative DNEL/Workers/Local effects/acute-short term 101.2 mg/m³ (worker)Inhalative DNEL / Workers / Local Effects / Long-term 67.5 mg/m³ (worker)Inhalative DNEL/general population/Systemic effects/Long-term 40.5 mg/m³ (consumer)Inhalative DNEL/general pop/Local effects/acute-short term 60.7 mg/m³ (consumer)Inhalative DNEL/general population/Local effects/Long-term 40.5 mg/m³ (consumer)

· **PNECs**

112-34-5 2-(2-butoxyethoxy)ethanol

Oral PNEC / Predators / Secondary poisoning 56 mg/kg food (secondary poisoning (predators))

PNEC / Aquatic organisms / Freshwater 1.1 mg/l (aquatic organisms)

PNEC / Aquatic organisms / Marine water 0.11 mg/l (aquatic organisms)

PNEC/Aquatic organisms/Sewage treatment plant/STP 200 mg/l (aquatic organisms)

PNEC / Aquatic organisms / Sediment (freshwater) 4.4 mg/kg (aquatic organisms)

PNEC / Aquatic organisms / Sediment (marine water) 0.44 mg/kg (aquatic organisms)

PNEC / Terrestrial organism / Soil 0.32 mg/kg (terrestrial organisms)

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

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
- **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.
 Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Protection of hands:**
 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**
 Protective gloves to EN374, resistant to oil in use. Standard EN 374 Level 3 control G1
 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.
 Fluorocarbon rubber (Viton)
 Nitrile rubber, NBR
 Recommended thickness of the material: ≥ 0.4 mm
- **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.
 For the mixture of chemicals mentioned below the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 1).
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

9 Physical and Chemical Properties

- | | |
|--|---|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| Form: | Liquefied gas |
| Colour: | Yellow |
| · Odour: | vanilla |
| · 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: | <-10 °C |
| · Flammability (solid, gas): | Not applicable. |
| · Ignition temperature: | >260 °C (DIN 51794) |
| · Decomposition temperature: | Not determined. |
| · Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |

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· Explosion limits:	
Lower:	1.5 Vol %
Upper:	8.5 Vol %
· Vapour pressure at 20 °C:	2,100 hPa 3200 mbar
· Density at 20 °C:	0.702 g/cm ³ (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:	<1 mm ² /s @40 °C (DIN 51562-1)
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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**

· LD/LC50 values relevant for classification:

106-97-8 butane

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)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Oral	LD50	5,000-15,000 mg/kg (rat)
	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)

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<i>Inhalative</i>	<i>LC50 / 4h</i>	3,160-5,000 mg/kg (rabbit)
	<i>LC50 / 8h</i>	4.951-9.3 mg/l (rat)
	<i>LC50 / 8h</i>	41-4,467 ppm (rat)
	<i>LC50 / 8h</i>	5 mg/l (rat)
	<i>NOAEL</i>	200 ppm (rat)
	<i>NOAEC</i>	275-10,400 mg/m ³ (rat)

74-98-6 propane

<i>Inhalative</i>	<i>LC50 / 15 min</i>	1,442.738-1.443 mg/l (rat)
	<i>LC50 / 15 min</i>	800,000 ppm (rat)
	<i>LC50 / 2h</i>	1,237 mg/l (mouse)
	<i>LC50 / 2h</i>	520,400-539,600 ppm (mouse)
	<i>NOAEC</i>	4,000-16,000 ppm (rat)
	<i>NOAEC</i>	7.214-21.394 mg/l (rat)
	<i>LOAEC</i>	21.64 mg/l (rat)
	<i>LOAEC</i>	12,000 ppm (rat)

Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics

<i>Oral</i>	<i>LD50</i>	5,000 mg/kg (rat)
<i>Dermal</i>	<i>LD50</i>	2,000 mg/kg (rabbit)
<i>Inhalative</i>	<i>LC50 / 4h</i>	1.72-4.6 mg/l (rat)

112-34-5 2-(2-butoxyethoxy)ethanol

<i>Oral</i>	<i>LD50</i>	2,410-5,530 mg/kg (mouse)
	<i>NOAEL</i>	250 mg/kg/24h (rat)
<i>Dermal</i>	<i>LD50</i>	2,764 mg/kg (rabbit)
	<i>NOAEL</i>	200-2,000 mg/kg/24h (rat)
<i>Inhalative</i>	<i>NOAEL</i>	14 ppm (rat)

75-28-5 isobutane

<i>Inhalative</i>	<i>LC50 / 15 min</i>	1,442.738-1.443 mg/l (rat)
	<i>LC50 / 15 min</i>	800,000 ppm (rat)
	<i>LC50 / 2h</i>	1,237 mg/l (mouse)
	<i>LC50 / 2h</i>	520,400-539,600 ppm (mouse)
	<i>NOAEC</i>	4,000-16,000 ppm (rat)
	<i>NOAEC</i>	7.214-21.394 mg/l (rat)
	<i>LOAEC</i>	21.641 mg/l (rat)
	<i>LOAEC</i>	12,000 ppm (rat)

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

<i>Oral</i>	<i>LD50</i>	5,000-15,000 mg/kg (rat)
	<i>NOAEL</i>	1,000-5,000 mg/kg/24h (rat)
<i>Dermal</i>	<i>LD50</i>	2,000 mg/kg (rat)
		3,160-5,000 mg/kg (rabbit)
<i>Inhalative</i>	<i>LC50 / 4h</i>	4.951-9.3 mg/l (rat)
	<i>LC50 / 8h</i>	41-4,467 ppm (rat)
	<i>LC50 / 8h</i>	5 mg/l (rat)
	<i>NOAEL</i>	200 ppm (rat)
	<i>NOAEC</i>	275-10,400 mg/m ³ (rat)

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics

<i>Oral</i>	<i>LD50</i>	5,000 mg/kg (rat)
	<i>NOAEL</i>	5,000 mg/kg/24h (rat)

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Dermal	LD50	3,160 mg/kg (rabbit)
Inhalative	LC50 / 4h	5.266 mg/l (rat)
	NOAEC	10.4 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** No irritant effect.

- **Serious eye damage/irritation** No irritating effect.

- **Respiratory or skin sensitisation** No sensitising effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

106-97-8 butane

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)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

LL50	1,000 mg/l/96h (fish)
LL50	1,000 mg/l/72h (fish)
LL50	1,000 mg/l/48h (fish)
LL50	1,000 mg/l/24h (fish)
LL0	100 mg/l/96h (fish)
EL50	1,000 mg/l/48h (aquatic invertebrates)
EL50	1,000 mg/l/24h (aquatic invertebrates)
EL50	1,000 mg/l/72h (algae / cyanobacteria)
ELO	1,000 mg/l/48h (aquatic invertebrates)
NOELR	0.131 mg/l/28d (fish)
NOELR	0.23 mg/l/21d (aquatic invertebrates)
NOELR	3-100 mg/l/72h (algae / cyanobacteria)

74-98-6 propane

LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)

112-34-5 2-(2-butoxyethoxy)ethanol

LC50	1,300 mg/l/96h (fish)
EC50	100 mg/l/96h (algae / cyanobacteria)
EC50	1,101 mg/l/72h (algae / cyanobacteria)
EC50	100 mg/l/48h (aquatic invertebrates)
NOEC	100 mg/l/96h (algae / cyanobacteria)
NOEC	100 mg/l/48h (aquatic invertebrates)

75-28-5 isobutane

LC50	24.11-147.54 mg/l/96h (fish)
LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)

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Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

LL50	1,000 mg/l/96h (fish)
LL50	1,000 mg/l/72h (fish)
LL50	1,000 mg/l/48h (fish)
LL50	1,000 mg/l/24h (fish)
LL0	1,000 mg/l/96h (fish)
EL50	1,000 mg/l/48h (aquatic invertebrates)
EL50	1,000 mg/l/24h (aquatic invertebrates)
EL50	1,000 mg/l/72h (algae / cyanobacteria)
EL0	1,000 mg/l/48h (aquatic invertebrates)
NOELR	1,000 mg/l/28d (fish)
NOELR	1,000 mg/l/21d (aquatic invertebrates)
NOELR	1,000 mg/l/72h (algae / cyanobacteria)

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics

EC50	100 mg/l/3h (microorganisms)
LL50	1.028 mg/l/96h (fish)
LL50	3.193 mg/l/48h (aquatic invertebrates)
LL50	3.193 mg/l/24h (aquatic invertebrates)
EL50	10,000 mg/l/72h (algae / cyanobacteria)
NOELR	1,000 mg/l/28d (fish)
NOELR	1,000 mg/l/21d (aquatic invertebrates)

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential**

106-97-8 butane

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Biodegradability	80 % (28d) (Bioaccumulation) (OECD 301 F)
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74-98-6 propane

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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112-34-5 2-(2-butoxyethoxy)ethanol

Partition coefficient	1 [---] (log Kow) (Bioaccumulation)
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Biodegradability	95 % (28d) (Biodegradability) (OECD 301 C)
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75-28-5 isobutane

Partition coefficient	1.09-2.8 [---] (log Kow) (Bioaccumulation)
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Biodegradability	100 % (28d) (Biodegradability)
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Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Biodegradability	2 % (28d) (Biodegradability) (OECD 301 F)
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Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics

Biodegradability	74 % (28d) (Biodegradability) (OECD 306)
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- **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.

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· **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.
- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Discharged containers can contain flammable or explosive vapours.

14 Transport information

· UN-Number	UN1950
· ADG, IMDG, IATA	UN1950
· UN proper shipping name	1950 AEROSOLS
· ADG	AEROSOLS
· IMDG	AEROSOLS, flammable
· IATA	AEROSOLS, flammable
· Transport hazard class(es)	
· ADG	
	
· Class	2.5F Gases.
· Label	2.1
· IMDG, IATA	
	
· Class	2.1
· Label	2.1
· Packing group	Void
· ADG, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Gases.
· Danger code (Kemler):	-
· EMS Number:	F-D, S-U
· Stowage Code	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.
· Segregation Code	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

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	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.
· 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

15 Regulatory information

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

· **Australian Inventory of Chemical Substances**

106-97-8	butane
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
74-98-6	propane
	Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics
112-34-5	2-(2-butoxyethoxy)ethanol
57855-77-3	Naphtalensulfonic acid, dinonyl-, calcium salts
75-28-5	isobutane
78-78-4	isopentane
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
25619-56-1	barium naphtalenesulfonate
84-66-2	diethyl phthalate
64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic
78330-21-9	2-[2-(2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol
120-57-0	piperonal
91-64-5	Coumarin
17463-34-2	Octanoic acid, compound with octylamine (1:1)
78-83-1	butanol
124-07-2	octanoic acid

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

84-66-2	diethyl phthalate	S10
91-64-5	Coumarin	S4

· **Directive 2012/18/EU**

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

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- **Seveso category P3a FLAMMABLE AEROSOLS**
- **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 not been carried out.**

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.

· **Relevant phrases**

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Department issuing SDS: Abteilung Produktsicherheit**

· **Abbreviations and acronyms:**

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

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. 3: Flammable liquids – Category 3

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

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

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

Asp. Tox. 1: Aspiration hazard – Category 1

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