



Safety data sheet

According to Regulation (EU) No 2020/878

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING *

1.1. Product identifier

Product name : SHELL TYRE REPAIR
Product code : CRX434, 30462; AT61B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application : SU21 Consumer product. PC0 Other. Other vehicle (all types) cleaning and care products.

1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Nederland BV
Industrieweg 30
3762 EK Soest, The Netherlands
Telephone : +31-35 7604900
E-mail : msds@kemetyl.com
Website : www.kemetyl.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
NL - Telephone : +31-35-6099310 (During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Aerosols, category 1. Eye irritation, category 2. Specific target organ toxicity after single exposure, category 3. Reproductive toxicity, Additional category, Effects on or via lactation. Hazardous to the aquatic environment — Acute category 1. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. May cause harm to breast-fed children. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards : Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards : Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Other information : Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets. Replace the gas in the tyre by air as soon as possible. User should inform repairman of flammable contents. Caution, propellant is flammable, replace only in open air.

2.2. Label elements

Label elements (1272/2008/EC):
Hazard pictograms :





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| | | |
|------------------|---|---|
| Signal word | : Danger | |
| H- and P-phrases | : H222 H229 H319 H336 H362 H400 H411 EUH066 P101 P102 P210 P211 P251 P263 P391 P410+P412 P501 | Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness. May cause harm to breast-fed children. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact during pregnancy/while nursing. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to an official chemical waste depot. |

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



| | | |
|------------------|---|--|
| Signal word | : Danger | |
| H- and P-phrases | : H222 H229 H336 H362 EUH066 P101 P102 P210 P211 P251 P263 P391 P410+P412 P501 | Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. May cause harm to breast-fed children. Repeated exposure may cause skin dryness or cracking. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact during pregnancy/while nursing. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container to an official chemical waste depot. |

Additional labelling (for all packaging sizes)

- : Contains: n-Butyl acetate ; Butanone ; Acetone .
- : 5 per cent of the mixture consists of component(s) of unknown acute inhalation toxicity.

2.3. Other hazards

| | |
|-------------------|---|
| Other information | : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). There are no data about the product available. Contains SVHC substances. See section 3. |
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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

Product description : Mixture. Ingredients which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with the criteria set out in Annex XIII of Regulation (EC) No 1907/2006: Alkanes, C14-17, chloro

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|-------------------------|-------------------------|------------|-----------|----------|------------------|
| Dimethyl ether | 25 - < 50 | 115-10-6 | 204-065-8 | | 01-2119472128-37 |
| n-Butyl acetate | 20 - < 25 | 123-86-4 | 204-658-1 | | 01-2119485493-29 |
| Butanone | 10 - < 20 | 78-93-3 | 201-159-0 | | 01-2119457290-43 |
| Acetone | 10 - < 20 | 67-64-1 | 200-662-2 | | 01-2119471330-49 |
| Alkanes, C14-17, chloro | 2,5 - < 5 | 85535-85-9 | 287-477-0 | PBT,vPvB | 01-2119519269-33 |

| Substance name | Hazard Class | H-phrases | Pictograms | |
|-------------------------|---|--------------------------|--------------|------------------------------------|
| Dimethyl ether | Flam. Gas 1A; Press. Gas | H220; H280 | GHS02 | |
| n-Butyl acetate | Flam. Liq. 3; STOT SE 3 | H226; H336; EUH066 | GHS02; GHS07 | |
| Butanone | Flam. Liq. 2; Eye Irrit. 2; STOT SE 3 | H225; H319; H336; EUH066 | GHS02; GHS07 | |
| Acetone | Flam. Liq. 2; Eye Irrit. 2; STOT SE 3 | H225; H319; H336; EUH066 | GHS02; GHS07 | |
| Alkanes, C14-17, chloro | Lact.; Aquatic Acute 1; Aquatic Chronic 1 | H362; H400; H410; EUH066 | GHS09 | M (acute) = 100 M (chronic) = 1 |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur.

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

- Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.
- Skin contact : Repeated exposure may cause skin dryness or cracking.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

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5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable : Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and prevent explosion of the aerosol.
Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Fight a fire where aerosols are involved from a protected position. Wear full protective clothing and self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Waste product should not be allowed to contaminate soil or water.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Collect aerosol cans in an approved container. Do not pierce aerosols. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

- Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE *

7.1. Precautions for safe handling

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities



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Storage : Keep away from oxidizing agents. Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat.
Recommended packaging : Not applicable.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION *

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m ³) | STEL 15 min (mg/m ³) | Comments | Source |
|-----------------|---------|---------------------------------|----------------------------------|------------|--------|
| Dimethyl ether | EC | 1920 | - | - | - |
| Dimethyl ether | GB | 766 | 958 | - | - |
| n-Butyl acetate | GB | 724 | 966 | - | - |
| Butanone | EC | 600 | 900 | - | - |
| Butanone | GB | 600 | 899 | Skin; BMGV | - |
| Acetone | EC | 1210 | - | - | - |
| Acetone | GB | 1210 | 3620 | - | - |

Biological limit values (BMGV):

| Substance | Country | Determinant | BMG-value | Specimen/Sampling Time/Remarks |
|-----------|---------|-------------|-------------|--------------------------------|
| | | | None known. | |

Abbreviations BMG-list : B = Blood. U = Urine. b = At the end of the period of exposure. d = pre-shift.

Source : EH40/2005 (Fourth edition, 2020).

Derived no-effect level (DNEL) for workers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|-------------------------|-------------------|-----------------------|-----------------------|------------------------|--|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Dimethyl ether | Inhalation | | | | 1894 mg/m ³ |
| n-Butyl acetate | Inhalation | 600 mg/m ³ | 600 mg/m ³ | 300 mg/m ³ | 300 mg/m ³ |
| Butanone | Dermal | | 11 mg/kg bw | | 11 mg/kg bw/day |
| | Inhalation | | | | 1161 mg/kg bw/day |
| Acetone | Dermal | | | | 600 mg/m ³ |
| | Inhalation | | | 2420 mg/m ³ | 186 mg/kg bw/day |
| Alkanes, C14-17, chloro | Inhalation | | | | 1210 mg/m ³ |
| | Dermal | | | | 6,7 mg/m ³ 47,9 mg/kg bw/day |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|-----------------|-------------------|-----------------------|-----------------------|------------------------|------------------------|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Dimethyl ether | Inhalation | | | | 471 mg/m ³ |
| n-Butyl acetate | Inhalation | 300 mg/m ³ | 300 mg/m ³ | 35.7 mg/m ³ | 35.7 mg/m ³ |
| | Dermal | | 6 mg/kg bw | | 6 mg/kg bw/day |
| | Oral | | 2 mg/kg bw | | 2 mg/kg bw/day |



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|-------------------------|--------------------------------------|--|--|--|---|
| Butanone | Dermal Inhalation | | | | 412 mg/kg bw/day 106 mg/m ³ |
| Acetone | Oral Dermal Inhalation | | | | 31 mg/kg bw/day 62 mg/kg bw/day 200 mg/m ³ |
| Alkanes, C14-17, chloro | Oral Inhalation Dermal Oral | | | | 62 mg/kg bw/day 2 mg/m ³ 28,75 mg/kg bw/day 0,58 mg/kg bw/day |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|-------------------------|--------------------|--------------|--------------|-----------------|
| Dimethyl ether | Water | 0,155 mg/l | 0,016 mg/l | |
| | Sediment | 0,681 mg/kg | 0,069 mg/kg | |
| | Intermittent water | | | 1,549 mg/l |
| | STP | | | 160 mg/l |
| n-Butyl acetate | Soil | | | 0,045 mg/kg |
| | Water | 0,18 mg/l | 0,015 mg/l | |
| | Sediment | 0,981 mg/kg | 0,0981 mg/kg | |
| | Intermittent water | | | 0,36 mg/l |
| Butanone | STP | | | 35,6 mg/l |
| | Soil | | | 0,0903 mg/kg |
| | Water | 55,8 mg/l | 55,8 mg/l | |
| | Sediment | 284,74 mg/kg | 284,7 mg/kg | |
| Acetone | Intermittent water | | | 55,8 mg/l |
| | STP | | | 709 mg/l |
| | Soil | | | 22,5 mg/kg |
| | Oral | | | 1000 mg/kg food |
| Alkanes, C14-17, chloro | Water | 10,6 mg/l | 1,06 mg/l | |
| | Sediment | 30,4 mg/kg | 3,04 mg/kg | |
| | Intermittent water | | | 21 mg/l |
| | STP | | | 100 mg/l |
| Alkanes, C14-17, chloro | Soil | | | 29,5 mg/kg |
| | Water | 0,001 mg/l | 0,002 mg/l | |
| | Sediment | 13 mg/kg | 2,6 mg/kg | |
| | STP | | | 80 mg/l |
| Alkanes, C14-17, chloro | Soil | | | 11,9 mg/kg |
| | Oral | | | 10 mg/kg food |

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work. May cause harm to breast-fed children.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required for momentary use. Wear suitable protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345 in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. Indication of permeation breakthrough time: 1 hour.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.



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| | |
|-----------------|--|
| Hand protection | : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. \pm 0,5 mm. Indication of permeation breakthrough time: 1 hour. |
| Eye protection | : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

| | | |
|---|------------------------|---|
| Physical state | : Aerosol. | |
| Colour | : White. | |
| Odour | : Characteristic. | |
| Odour threshold | : Not known. | |
| pH | : Not applicable. | Waterfree product. |
| Solubility in water | : | Active ingredients not soluble. Propellant(s) soluble. |
| Partition coefficient (n-octanol/water) | : Not known. | Not measured. Not relevant for mixtures. |
| Flash point | : Not applicable. | Not measurable. |
| Flammability (solid, gas) | : Extremely flammable. | Ignition distance and time equivalent needed to achieve ignition: Not measured. |
| Auto ignition temperature | : Not applicable. | Aerosol container explodes before reaching the auto-ignition point. |
| Boiling point/boiling range | : Not known. | Not measurable. |
| Melting point/melting range | : < 0 °C | |
| Explosive properties | : | Pressurised container: May burst if heated. |
| Explosion limits (% in air) | : 1,2 - 18,6 | |
| Oxidising properties | : Not applicable. | Does not contain oxidizing substances. |
| Decomposition temperature | : Not applicable. | Aerosol explodes before reaching the decomposition temperature. |
| Viscosity (20°C) | : Not known. | Not measurable. |
| Viscosity (40°C) | : Not known. | Not measurable. |
| Vapour pressure (20°C) | : 350000 Pa | |
| Relative vapour density | : > 1 | (air = 1) |
| Relative density (20°C) | : 0,79 g/ml | |
| Particle characteristics | : Not applicable. | Liquid. |

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of ignition and sources of heat. See section 7.



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10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

Hazardous decomposition products : May include and are not limited to: Hydrogen halogenide(s) (e.g. HF, HCl).

SECTION 11 TOXICOLOGICAL INFORMATION

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11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 5 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met. Does not contain carcinogenic substances.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Slight irritation possible. Repeated exposure may cause skin dryness or cracking. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Aerosol or mist: Ingestion is unlikely to occur. Calculated LD50: > 2382 mg/kg.bw. Ingredients of unknown toxicity: 31 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Aerosol or mist: Ingestion is unlikely to occur. Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Aerosol or mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.



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Reprotoxicity : Aerosol or mist: Ingestion is unlikely to occur. Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

| Chemical name | Property | | Method | Test animal |
|-------------------------------------|--------------------------------------|---------------------|------------|------------------------|
| n-Butyl acetate | NOAEL (inhalation) | 2395 mg/m3 | | |
| | Skin sensitisation | Not sensitizing | | |
| | Skin irritation | Slightly irritant | OECD 404 | Rabbit |
| | Eye irritation | Slightly irritant | OECD 405 | Rabbit |
| | LC50 (inhalation) | > 21100 mg/m3 | OECD 403 | Rat |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | LD50 (dermal) | > 14100 mg/kg bw | OECD 402 | Rabbit |
| | LD50 (oral) | 10700 mg/kg bw | ----- | Rat |
| | NOAEL (fertility, inh.) | > 3000 mg/m3 | OECD 415 | Rat |
| | Genotoxicity - in vitro | Not genotoxic | OECD 473 | |
| Butanone | NOAEL (developmental toxicity, inh.) | > 7230 mg/m3 | OECD 414 | Rat |
| | LD50 (oral) | 2737 mg/kg bw | ----- | Rat |
| | LD50 (dermal) | 6400 mg/kg bw | | Rabbit |
| | LC50 (inhalation) | > 5000 mg/m3 | | Rat |
| | NOAEL (oral) | 2500 mg/kg bw/d | | Rat |
| | Skin sensitisation | Not sensitizing | | Guinea pig |
| | Skin irritation | Moderately irritant | | Rabbit |
| | Eye irritation | Highly irritant | | Rabbit |
| | Genotoxicity - in vitro | Not genotoxic | OECD 473 | ----- |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | Genotoxicity - in vivo | Not genotoxic | OECD 474 | Mouse |
| | NOAEL (developmental toxicity, inh.) | 2955 mg/m3 | OECD 414 | Rat |
| | NOAEL (fertility) - estimate | 1644 mg/kg.d | | Rat |
| | NOAEL (inhalation) | 14790 mg/m3 | OECD 413 | Rat |
| Inhalation sensitisation - estimate | Not sensitizing | ----- | Guinea pig | |
| Acetone | Skin sensitisation | Not sensitizing | OECD 406 | Guinea pig |
| | NOAEL (oral) | 900 mg/kg bw/d | OECD 408 | Rat |
| | NOAEL (inhalation) | 22500 mg/m3 | | Rat |
| | Skin irritation | Non-irritant | ----- | Guinea pig |
| | Eye irritation | Moderately irritant | OECD 405 | Rabbit |
| | LD50 (dermal) | > 15688 mg/kg bw | | Rabbit |
| | NOAEL (fertility, oral) | 900 mg/kg bw/d | | Rat |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | Genotoxicity - in vitro | Not genotoxic | OECD 476 | Mouse |
| | Genotoxicity - in vivo | Not genotoxic | | Mouse |
| | LD50 (oral) | 5800 mg/kg bw | ----- | Rat |
| | NOEL (carcinogenicity, inh.) | Not carcinogenic | | |
| | NOEL (carcinogenicity, oral) | Not carcinogenic | | |
| | NOAEL (developmental toxicity, inh.) | 5300 mg/m3 | OECD 414 | Rat |
| NOEL (carcinogenicity, dermal) | Not carcinogenic | ----- | Mouse | |



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|-------------------------|------------------------------|-------------------|-------------|------------------------|
| Alkanes, C14-17, chloro | LC50 (inhalation) - estimate | 50100 mg/m3 | ---- | Rat |
| | LD50 (oral) | > 4000 mg/kg bw | ---- | Rat |
| | NOAEL (oral) | 10 mg/kg bw/d | | Rat |
| | Skin sensitisation | Not sensitizing | | Guinea pig |
| | Skin irritation | Slightly irritant | OECD 404 | Rabbit |
| | Eye irritation | Slightly irritant | ---- | Rabbit |
| | NOAEL (development, oral) | Not teratogenic | ---- | |
| | NOAEL (fertility) - estimate | Not reprotoxic | ---- | ---- |
| | LC50 (inhalation) - estimate | > 3300 mg/m3 | Read across | Rat |
| | NOAEL (fertility, oral) | 100 mg/kg bw/d | OECD 421 | Rat |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| Genotoxicity - in vivo | > 5000 mg/kg bw/d | OECD 475 | Rat | |

11.2. Information on other hazards

Endocrine disrupting properties : Not applicable.
 Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

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12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 70 mg/l. Calculated EC50 (waterflea): < 1 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Not applicable

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Contains: Alkanes, C14-17, chloro

12.6. Endocrine disrupting properties

Endocrine disrupting properties : Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

| Chemical name | Property | | Method | Test animal |
|-------------------------|------------------|-------------|----------|-------------------|
| Alkanes, C14-17, chloro | EC50 (waterflea) | 0,0059 mg/l | OECD 202 | Daphnia magna |
| | LC50 (fish) | > 5000 mg/l | OECD 203 | Alburnus alburnus |



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|--|-------------------------------------|-------------|------------|---------------|
| Alkanes, C14-17, chloro Alkanes, C14-17, chloro | Ultimate aerobic biodegradation (%) | 64 % | OECD 301 D | |
| | NOEC (waterflea) - chronic | 0,01 mg/l.d | OECD 202 | Daphnia magna |
| | Log P(ow) | 7,0000 | | |
| | BCF | 1087 | | |

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
- Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : UN 1950 (For IATA only) ID 8000

14.2. UN proper shipping name

Transport name : AEROSOLS . For IATA only: CONSUMER COMMODITY
Transport name (IMDG, IATA) : AEROSOLS . For IATA only: CONSUMER COMMODITY

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 2
Classification code : 5F
Packaging group : -
Danger label : 2,1 + the "environmentally hazardous substance" mark.
Tunnel restriction code : D



Other information : Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IMDG (sea)

Class : 2,1
Packaging group : -
EmS (fire / spill) : F - D / S - U



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Marine pollutant : Yes
Other information : Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IATA (air)
Class : 2,1
ERG code : 9L

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product. An IATA ID8000 Consumer Commodity package must bear an Air Limited Quantity marking and a Class 9 hazard label.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

*

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

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations. Directive 2008/98/EC (waste).
: In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

*

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labeling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
GHS : Globally Harmonized System of Classification and Labelling of Chemicals
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code



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| | |
|-----------|--|
| IMDG | : International Maritime Dangerous Goods Code |
| LD50/LC50 | : Lethal Dose/Concentration for 50% of a population |
| MAC | : Maximum Allowable Concentration |
| MARPOL | : International Convention for the Prevention of Pollution From Ships |
| NO(A)EL | : No Observed (Adverse) Effect Level |
| OECD | : Organisation for Economic Co-operation and Development |
| PBT | : Persistent, Bioaccumulative and Toxic |
| PC | : Chemical product category |
| PT | : Product type |
| REACH | : Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | : Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | : Sewage Treatment Plant |
| SU | : Sector of Use |
| TWA/STEL | : Time-Weighted Average/Short Term Exposure Limit |
| UN | : United Nations |
| UFI | : Unique formula identifier |
| VOC | : Volatile Organic Compounds |
| vPvB | : Very Persistent and Very Bioaccumulative |

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

| | |
|-------------------|-----------------------|
| Flam. Aer. 1 | : Expert judgement. |
| Eye Irrit. 2 | : Calculation method. |
| Lact. | : Calculation method. |
| STOT SE 3 | : Calculation method. |
| Aquatic Chronic 2 | : Calculation method. |
| Aquatic Acute 1 | : Calculation method. |

Full text of hazard classes mentioned in section 3:

| | |
|-------------------|--|
| Flam. Gas 1 | : Flammable gas, category 1. |
| Flam. Liq. 2 | : Flammable liquid, category 2. |
| Flam. Liq. 3 | : Flammable liquid, category 3. |
| Eye Irrit. 2 | : Eye irritation, category 2. |
| Press. Gas | : Gases under pressure. |
| Lact. | : Reproductive toxicity, Additional category, Effects on or via lactation. |
| STOT SE 3 | : Specific target organ toxicity after single exposure, category 3. |
| Aquatic Chronic 1 | : Hazardous to the aquatic environment — Chronic category 1. |
| Aquatic Acute 1 | : Hazardous to the aquatic environment — Acute category 1. |

Full text of H-phrases mentioned in section 3:

| | |
|--------|---|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H362 | May cause harm to breast-fed children. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.



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End of safety data sheet.

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