



# Safety data sheet

According to Regulation (EU) No 2015/830

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

### 1.1. Product identifier

Product name : SHELL CONTACT SPRAY  
Product code : CRX727, AT649I

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

Application : SU21 Consumer product. PC35 Cleaning agent. PC0 Other. Car maintenance.

### 1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Polska Sp. z o. o.  
Al. Jerozolimskie 146  
02-305 Warszawa, Poland  
Telephone : +48 22 822 5390  
E-mail : msds@kemetyl.com  
Website : www.kemetyl.com

### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

PL - Telephone : +48 22 822 5390 (During office hours only)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Aerosols, category 1. Skin irritation, category 2. Eye irritation, category 2. Specific target organ toxicity after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. 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 : 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.

### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.



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|           |  |
|-----------|--|
| H315      | Causes skin irritation.  |
| H319      | Causes serious eye irritation.   |
| H336      | May cause drowsiness or dizziness.   |
| H411      | Toxic to aquatic life with long lasting effects.   |
| 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.   |
| P271      | Use only outdoors or in a well-ventilated area.  |
| P273      | Avoid release to the environment.  |
| P391      | Collect spillage.  |
| P405      | Store locked up.   |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.                   |
| P501      | 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      | Extremely flammable aerosol.   |
|                  |   | H229      | Pressurised container: May burst if heated.  |
|                  |   | H336      | May cause drowsiness or dizziness.   |
|                  |   | 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.   |
|                  |   | P271      | Use only outdoors or in a well-ventilated area.  |
|                  |   | P405      | Store locked up.   |
|                  |   | P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.                   |
|                  |   | P501      | Dispose of contents/container to an official chemical waste depot.                             |

Additional labelling (for all packaging sizes)

: Contains: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ; Propan-2-ol .

Ingredient declaration according to Regulation EC 648/2004:

| Contains:              | Concentration (%) |
|------------------------|-------------------|
| Aliphatic hydrocarbons | > 30              |

## 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). Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture.



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Information on hazardous substances:

| Substance name  | Concentration (w/w) (%) | CAS nr.  | EC number | Remark | REACH nr.        |
|---|-------------------------|----------|-----------|--------|------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 25 - < 50               | -----    | 921-024-6 |        | 01-2119475514-35 |
| Dimethoxymethane  | 10 - < 25               | 109-87-5 | 203-714-2 |        | 01-2119664781-31 |
| Propan-2-ol   | 10 - < 25               | 67-63-0  | 200-661-7 |        |                  |
| Ethanol   | 10 - < 25               | 64-17-5  | 200-578-6 |        | 01-2119457610-43 |
| Carbon dioxide  | 2,5 - < 10              | 124-38-9 | 204-696-9 | MAC    |                  |

| Substance name  | Hazard Class   | H-phrases                    | Pictograms                 |                  |
|---|--|------------------------------|----------------------------|------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Aquatic Chronic 2; Asp. Tox. 1; Flam. Liq. 2; STOT SE 3; Skin Irrit. 2 | H225; H304; H315; H336; H411 | GHS02; GHS07; GHS08; GHS09 |                  |
| Dimethoxymethane  | Flam. Liq. 2   | H225                         | GHS02                      |                  |
| Propan-2-ol   | Eye Irrit. 2; Flam. Liq. 2; STOT SE 3                                  | H225; H319; H336             | GHS02; GHS07               |                  |
| Ethanol   | Eye Irrit. 2; Flam. Liq. 2   | H225; H319                   | GHS02; GHS07               | H319 : C >= 50 % |
| Carbon dioxide  | -----  | -----                        | -----                      |                  |

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 if victim feels unwell.
- 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 : Irritant. May cause dry skin and redness.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur.

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

Note to physicians : None known.

## SECTION 5 FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.
- Not suitable : Water jet.



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## 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. Use adequate respiratory equipment in case of insufficient ventilation.

## 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. 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

- Storage : 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)



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Use : Use only as directed. Do not mix with other products.

## 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/m<sup>3</sup>):

| Chemical name   | Country | TWA 8 hour (mg/m <sup>3</sup> ) | STEL 15 min (mg/m <sup>3</sup> ) | Comments   | Source                        |
|---|---------|---------------------------------|----------------------------------|------------|-------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |         | 1200                            |                                  | CEFIC-HSPA |                               |
| Dimethoxymethane  | GB      | 3160                            | 3950                             |            | MAC: various EU Member States |
| Dimethoxymethane  |         | 3100                            |                                  |            |                               |
| Propan-2-ol   | GB      | 999                             | 1250                             |            | MAC: NL                       |
| Ethanol   |         | 260                             | 1900                             |            |                               |
| Ethanol   | GB      | 1920                            |                                  |            |                               |
| Carbon dioxide  | GB      | 9150                            | 27400                            |            |                               |
| Carbon dioxide  | EC      | 9000                            |                                  |            |                               |

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         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Inhalation        |                        |                 |                 | 2035 mg/m <sup>3</sup>  |
| Dimethoxymethane  | Dermal            |                        |                 |                 | 773 mg/kg bw/day        |
|   | Dermal            |                        |                 |                 | 17,9 mg/kg bw/day       |
| Propan-2-ol   | Inhalation        |                        |                 |                 | 126,6 mg/m <sup>3</sup> |
|   | Dermal            |                        |                 |                 | 888 mg/kg bw/day        |
| Ethanol   | Inhalation        | 1900 mg/m <sup>3</sup> |                 |                 | 500 mg/m <sup>3</sup>   |
|   | Inhalation        |                        |                 |                 | 950 mg/m <sup>3</sup>   |
|   | Dermal            |                        |                 |                 | 343 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        |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Inhalation        |                       |                 |                 | 608 mg/m <sup>3</sup>  |
| Dimethoxymethane  | Dermal            |                       |                 |                 | 699 mg/kg bw/day       |
|   | Oral              |                       |                 |                 | 699 mg/kg bw/day       |
|   | Dermal            |                       |                 |                 | 18,1 mg/kg bw/day      |
| Propan-2-ol   | Inhalation        |                       |                 |                 | 31,5 mg/m <sup>3</sup> |
|   | Oral              |                       |                 |                 | 18,1 mg/kg bw/day      |
|   | Dermal            |                       |                 |                 | 319 mg/kg bw/day       |
| Ethanol   | Inhalation        | 950 mg/m <sup>3</sup> |                 |                 | 89 mg/m <sup>3</sup>   |
|   | Oral              |                       |                 |                 | 26 mg/kg bw/day        |
|   | Inhalation        |                       |                 |                 | 114 mg/m <sup>3</sup>  |
|   | Dermal            |                       |                 |                 | 206 mg/kg bw/day       |
|   | Oral              |                       |                 |                 | 87 mg/kg bw/day        |

Product name : Shell Contact Spray

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Predicted no-effect concentration (PNEC):

| Chemical name    | Route of exposure  | Fresh water  | Marine water    |                |
|------------------|--------------------|--------------|-----------------|----------------|
| Dimethoxymethane | Water              | 14,577 mg/l  | 1,477 mg/l      |                |
|                  | Sediment           | 13,135 mg/kg | 1,3135 mg/kg    |                |
|                  | STP                |              |                 | 10 mg/l        |
| Propan-2-ol      | Soil               |              |                 | 4,6538 mg/kg   |
|                  | Water              | 140,9 mg/l   | 140,9 mg/l      |                |
|                  | Sediment           | 552 mg/kg    | 552 mg/kg       |                |
|                  | Intermittent water |              |                 | 140,9 mg/l     |
|                  | STP                |              |                 | 2251 mg/l      |
| Ethanol          | Soil               |              |                 | 28 mg/kg       |
|                  | Oral               |              |                 | 160 mg/kg food |
|                  | Water              | 0,96 mg/l    | 0,79 mg/l       |                |
|                  | Sediment           | 3,6 mg/kg    | 2,9 mg/kg       |                |
|                  | Intermittent water |              |                 | 2,75 mg/l      |
|                  | STP                |              |                 | 580 mg/l       |
|                  | Soil               |              |                 | 0,63 mg/kg     |
| Oral             |                    |              | 0,72 mg/kg food |                |

## 8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

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: nitril. Indication of permeation breakthrough time: 6 hours.

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.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.

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

Appearance : Aerosol.

Colour : Colourless.

Odour : Characteristic.

Odour threshold : Not known.

pH : Not applicable.

Waterfree product.

Solubility in water :

Active ingredients not soluble. Propellant(s) soluble.



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|   |                        |   |
|---|------------------------|---|
| Partition coefficient (n-octanol/water) | : Not known.           | Not measured. Not relevant for mixtures.                                    |
| Flash point                             | : Not applicable.      | Not measurable.   |
| Flammability (solid, gas)               | : Extremely flammable. | Contains > 85% flammable components and has a heat of combustion > 30 kJ/g. |
| 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             | : < -20 °C             |   |
| Explosive properties                    | :                      | Pressurised container: May burst if heated.                                 |
| Explosion limits (% in air)             | : 0,8 - 19,9           |   |
| 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)                  | : 440 hPa              |   |
| Vapour density (20°C)                   | : > 1                  | (air = 1)   |
| Relative density (20°C)                 | : 0,76 g/ml            |   |
| Evaporation rate                        | : Not known.           | Not relevant. Mixture of gases, liquids and solids.                         |

## 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.

### 10.5. Incompatible materials

Materials to avoid : Not applicable.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation



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- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. 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 : Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : 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 : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. 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: 3099 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. May cause hampered eyesight.
- Aspiration : Aerosol or mist: Ingestion is unlikely to occur. 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, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Aerosol or mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Aerosol or mist: Ingestion is unlikely to occur. Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- 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 |
|---|-----------------------------------|------------------|-------------|-------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | LD50 (oral) - estimate            | > 5840 mg/kg bw  | Read across | Rat         |
|   | LD50 (dermal) - estimate          | > 2800 mg/kg bw  | Read across | Rat         |
|   | NOAEL (inhalation) - estimate     | 8117 mg/m3       | Read across | Rat         |
|   | Mutagenicity - estimate           | Negative         | Read across |             |
|   | Genotoxicity - estimate           | Not genotoxic    | Read across |             |
|   | Skin irritation                   | Irritant         | OECD 404    | Rabbit      |
|   | Eye irritation - estimate         | Non-irritant     | Read across |             |
|   | Skin sensitisation - estimate     | Not sensitizing  | Read across |             |
|   | NOEL (carcinogenicity) - estimate | Not carcinogenic | Read across | ----        |



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|                 |                              |                   |          |                        |
|-----------------|------------------------------|-------------------|----------|------------------------|
| Propan-2-ol     | LC50 (inhalation)            | > 25200 mg/m3     | ----     | Rat                    |
|                 | LD50 (oral)                  | 4396 mg/kg bw     | ----     | Rat                    |
|                 | LD50 (dermal)                | 12800 mg/kg bw    | ----     | Rat                    |
|                 | LC50 (inhalation)            | 46600 mg/m3       | ----     | Rat                    |
|                 | Skin irritation              | Slightly irritant | OECD 404 | Rabbit                 |
|                 | Eye irritation               | Irritant          | OECD 405 | Rabbit                 |
|                 | NOAEL (fertility, oral)      | 407 mg/kg bw/d    |          | Rat                    |
|                 | NOAEL (development, oral)    | 400 mg/kg bw/d    |          | Rat                    |
|                 | NOEL (carcinogenicity, oral) | Not carcinogenic  | OECD 416 | Rat                    |
|                 | Skin sensitisation           | Not sensitizing   | OECD 406 | Guinea pig             |
|                 | Mutagenicity                 | Negative          | OECD 471 |                        |
|                 | NOAEL (inhalation)           | 12500 mg/m3       | OECD 451 | Rat                    |
|                 | Genotoxicity - in vivo       | Not genotoxic     | OECD 474 | Mouse                  |
|                 | NOEL (carcinogenicity, inh.) | 12500 mg/m3       |          | Mouse                  |
| Ethanol         | Genotoxicity - in vitro      | Not genotoxic     | OECD 476 |                        |
|                 | NOAEL (oral)                 | 870 mg/kg bw/d    | ----     | Rat                    |
|                 | Mutagenicity                 | Negative          | OECD 471 | Salmonella typhimurium |
|                 | Genotoxicity - in vitro      | Not genotoxic     | OECD 476 |                        |
|                 | Genotoxicity - in vivo       | Not genotoxic     | OECD 478 | Mouse                  |
|                 | NOEL (carcinogenicity, oral) | > 4400 mg/kg bw/d |          | Mouse                  |
|                 | Eye irritation               | Irritant          | OECD 405 | Rabbit                 |
|                 | LC50 (inhalation)            | > 99999 mg/m3     | OECD 403 | Rat                    |
|                 | LD50 (oral)                  | 10470 mg/kg bw    | OECD 401 | Rat                    |
|                 | NOAEL (development, oral)    | 6400 mg/kg bw/d   |          |                        |
|                 | Skin sensitisation           | Not sensitizing   | OECD 406 | Guinea pig             |
|                 | NOAEL (fertility, oral)      | 20000 mg/kg bw/d  | OECD 415 | Rat                    |
|                 | NOAEL (oral)                 | 2400 mg/kg bw/d   |          | Rat                    |
|                 | NOAEL (inhalation)           | 23000 mg/m3       |          | Rat                    |
| LD50 (dermal)   | 15800 mg/kg bw               | ----              | Rabbit   |                        |
| Skin irritation | Non-irritant                 | ----              | Rabbit   |                        |

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 29 mg/l. Calculated EC50 (waterflea): 7 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 : No specific information known.

### 12.4. Mobility in soil

Mobility : Not applicable.

### 12.5. Results of PBT and vPvB assessment



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PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

## 12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

| Chemical name   | Property                            |              | Method      | Test animal                    |
|---|-------------------------------------|--------------|-------------|--------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | IC50 (algae)                        | > 10 mg/l    | OECD 201    | Pseudokirchnerella subcapitata |
|   | LC50 (fish)                         | 11,4 mg/l    | OECD 203    | Oncorhynchus mykiss            |
|   | EC50 (waterflea)                    | 3 mg/l       | OECD 202    | Daphnia magna                  |
|   | Ultimate aerobic biodegradation (%) | 98 %         | Read across |                                |
|   | NOEC (fish) - estimate              | 2,045 mg/l.d | -----       | -----                          |
|   | NOEC (daphnids) - estimate          | 1 mg/l.d     | OECD 211    | Daphnia magna                  |

## 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

UN nr. : UN 1950

### 14.2. UN proper shipping name

Transport name : AEROSOLS  
Transport name (IMDG, IATA) : AEROSOLS

### 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  
 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

#### 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.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.  
 : This product is exempted from classification as "May be fatal if swallowed and enters airways" on basis of section 3.10.1.6.3. of Annex I of Regulation (EC) No 1272/2008.  
 : 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 2015/830 dated 28 May 2015 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.



**Kemetyl**

# Safety data sheet

According to Regulation (EU) No 2015/830

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  |
| 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  |
| VOC       | : Volatile Organic Compounds  |
| vPvB      | : Very Persistent and Very Bioaccumulative  |

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

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

Full text of hazard classes mentioned in section 3:

|                   |   |
|-------------------|---|
| Flam. Liq. 2      | : Flammable liquid, category 2.                                     |
| Skin Irrit. 2     | : Skin irritation, category 2.                                      |
| Eye Irrit. 2      | : Eye irritation, category 2.                                       |
| STOT SE 3         | : Specific target organ toxicity after single exposure, category 3. |
| Asp. Tox. 1       | : Aspiration hazard, category 1.                                    |
| Aquatic Chronic 2 | : Hazardous to the aquatic environment — Chronic category 2.        |

Full text of H-phrases mentioned in section 3:

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.              |
| H304 | May be fatal if swallowed and enters airways.    |
| H315 | Causes skin irritation.                          |
| H319 | Causes serious eye irritation.                   |
| H336 | May cause drowsiness or dizziness.               |
| H411 | Toxic to aquatic life with long lasting effects. |

Number format : ", " used as decimal separator.



**Kemetyl**

# Safety data sheet

According to Regulation (EU) No 2015/830

End of safety data sheet.

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