

1K FillClean Waterborne Series E

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 2015-12-08 Revision date: 2025-09-26 Supersedes: 2019-07-31 Version: 3.1

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : 1K FillClean Waterborne Series E
Product code : 3682079 / REZ309
Vaporizer : Aerosol

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Paint

1.4. Supplier's details

Manufacturer

Peter Kwasny GmbH
96 Heibronner Str.
Gundelsheim, 74831
Germany
T 49(0) 6269-95-20

Distributor

Peter Kwasny Spraypaint Canada Inc
40 University Avenue, Suite 904
Toronto, ON, M5J 1T1
Canada
T +1 844-426-6330

Distributor

Peter Kwasny, Inc.
12222 Merit Drive, #130
Dallas, TX 75251
USA
T 1-844-426-6330

1.5. Emergency phone number

Emergency number : North America
INFOTRAC International +1 (352) 323-5000 24 hr

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Aerosol, Category 1
Serious eye damage/eye irritation, Category 2A
Simple asphyxiant, Category 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Extremely flammable aerosol
Pressurized container; may burst if heated

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| Precautionary statements (GHS) | <p>Causes serious eye irritation May displace oxygen and cause rapid suffocation : 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. Wash hands, forearms and face thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).</p> |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Not applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | Conc. (% w/w) |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|
| Dimethyl ether | Dimethyl ether Methane, oxybis- / Methyl ether / Wood ether / Methoxymethane / Methane, 1,1'-oxybis- / DIMETHYL ETHER / Oxybismethane / Dimethyl oxide / Dimethylether | CAS-No.: 115-10-6 | 65 - 85 |
| Ethyl alcohol | Ethyl alcohol Methylcarbinol / Ethanol / ALCOHOL / Alcohol / Grain alcohol / Anhydrous ethanol / Alcohol (ethyl) / Alcohol anhydrous | CAS-No.: 64-17-5 | 10 - 30 |

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| Name | Chemical name / Synonyms | Product identifier | Conc. (% w/w) |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|
| Propylene glycol monomethyl ether | Propylene glycol monomethyl ether / 1-Methoxy-2-propanol / 1-Methoxypropanol-2 / METHOXYISOPROPANOL / Methoxyisopropanol / Propylene glycol methyl ether / Propylene glycol 1-methyl ether / Propan-2-ol, 1-methoxy- / 1-Methoxypropan-2-ol / 1-Methoxy-2-hydroxypropane / 2-Methoxy-1-methylethanol / Propylene glycol monomethyl ether / 2-Propylene glycol 1-monomethyl ether / Methyl proxitol / Monomethyl ether of propylene glycol / Propyleneglycol monomethyl ether / Propanol, methoxy- | CAS-No.: 107-98-2 | 0.5 - 1.5 |
| Methyl ethyl ketone | Methyl ethyl ketone / Butan-2-one / 2-Butanone / Ethyl methyl ketone / Methyl acetone / MEK / Butanone | CAS-No.: 78-93-3 | 0.1- 1 |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

| | |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation | : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : If skin irritation occurs: Obtain medical attention if irritation persists. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation | : May cause irritation to the respiratory tract. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death. |
| Symptoms/effects after skin contact | : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/effects after ingestion | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

| | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Other medical advice or treatment | : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Powder. Water spray. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Irritating vapours. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Explosion hazard : Vapours may form explosive mixture with air. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Ruptured cylinders may rocket.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area. Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

For non-emergency personnel

No additional information available

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Remove all sources of ignition. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : 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. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. When using do not eat, drink or smoke. Handle and open container with care. Use only outdoors or in a well-ventilated area.

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| | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Hygiene measures | : Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. |
| Additional hazards when processed | : Pressurized container: Do not pierce or burn, even after use. Hazardous waste due to potential risk of explosion. |

7.2. Conditions for safe storage, including incompatibilities

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures | : Proper grounding procedures to avoid static electricity should be followed. |
| Storage conditions | : Keep out of the reach of children. Keep in fireproof place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Protect containers from physical damage. Store in a dry, cool and well-ventilated place. Keep container tightly closed. Store in a dry, cool and well-ventilated place. |

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

| Dimethyl ether (115-10-6) | |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------|
| USA - AIHA - Occupational Exposure Limits | |
| WEEL TWA | 1000 ppm |
| Ethyl alcohol (64-17-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Ethanol |
| ACGIH® TLV® STEL | 1880 mg/m ³ |
| ACGIH® TLV® STEL | 1000 ppm |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Regulatory reference | ACGIH 2025 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Ethyl alcohol (Ethanol) |
| OSHA PEL TWA | 1900 mg/m ³ |
| OSHA PEL TWA | 1000 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| USA - IDLH - Occupational Exposure Limits | |
| IDLH | 3300 ppm (10% LEL) |
| USA - NIOSH - Occupational Exposure Limits | |
| Local name | Ethyl alcohol (Ethanol) |
| NIOSH REL TWA | 1900 mg/m ³ |
| NIOSH REL TWA | 1000 ppm |
| NIOSH REL 10h TWA | 1000 ppm |
| Regulatory reference (US-NIOSH) | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG)) |

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| Propylene glycol monomethyl ether (107-98-2) | |
|-----------------------------------------------------|-----------------------------------------------------------------------------------|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 1-Methoxy-2-propanol |
| ACGIH® TLV® TWA | 50 ppm |
| ACGIH® TLV® STEL | 100 ppm |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2020 |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL TWA | 360 mg/m ³ |
| NIOSH REL TWA | 100 ppm |
| NIOSH REL STEL | 540 mg/m ³ |
| NIOSH REL STEL | 150 ppm |
| Methyl ethyl ketone (78-93-3) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH® TLV® TWA | 200 ppm |
| ACGIH® TLV® STEL | 300 ppm |
| USA - ACGIH - Biological Exposure Indices | |
| BEI | 2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific) |
| USA - OSHA - Occupational Exposure Limits | |
| OSHA PEL TWA | 590 mg/m ³ |
| OSHA PEL TWA | 200 ppm |
| USA - IDLH - Occupational Exposure Limits | |
| IDLH | 3000 ppm |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL TWA | 590 mg/m ³ |
| NIOSH REL TWA | 200 ppm |
| NIOSH REL STEL | 885 mg/m ³ |
| NIOSH REL STEL | 300 ppm |

8.2. Appropriate engineering controls

| | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers. |
| Environmental exposure controls | : Avoid release to the environment. |

8.3. Individual protection measures, such as personal protective equipment

| |
|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection: |
| Wear chemically resistant protective gloves. Consult glove manufacturer's product information on material suitability and material thickness. |
| Eye protection: |
| Wear eye/face protection |

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| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment. |

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|----------------------------------------|------------------------------------|
| Physical state | : Liquid |
| Appearance | : Aerosol. |
| Colour | : Clear |
| Odour | : Characteristic |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 0 °C (32 F) (without propellant) |
| Flammability (solid, gas) | : Extremely flammable aerosol. |
| Vapour pressure | : 2550.2 mm Hg (340 kPa) |
| Relative vapour density at 20°C/ 68 °F | : No data available |
| Relative density | : 0.75 |
| Solubility | : Insoluble. |
| Partition coefficient n-octanol/water | : No data available |
| Auto-ignition temperature | : 235 °C (455 F) |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Explosive limits | : 3% - 18.6% |
| Particle characteristics | : No data available |

| Dimethyl ether | |
|---------------------------|------------------------|
| Boiling point | -24.9 °C |
| Flash point | -40.56 °C (closed cup) |
| Auto-ignition temperature | 240 °C |
| Vapour pressure | 5.12 hPa (at 20 °C) |
| Particle characteristics | No data available |

| Ethyl alcohol | |
|---------------------------|----------------------------------------------------------|
| Boiling point | 78.29001 °C Atm. press.: 1013,25 hPa Decomposition: 'no' |
| Flash point | 13 °C Atm. press.: 1 atm |
| Auto-ignition temperature | 363 °C |
| Vapour pressure | 57.3 hPa (at 20 °C) |

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| Ethyl alcohol | |
|--------------------------|-------------------|
| Particle characteristics | No data available |

| Propylene glycol monomethyl ether | |
|-----------------------------------|------------------------------------------------------|
| Boiling point | 120.17 °C Atm. press.: 101325 Pa Decomposition: 'no' |
| Flash point | 31.1 °C Atm. press.: 101,3 hPa |
| Auto-ignition temperature | 287 °C (at 1013 hPa) |
| Vapour pressure | 11.5 hPa (at 20 °C) |
| Particle characteristics | No data available |

| Methyl ethyl ketone | |
|---------------------------|--------------------|
| Boiling point | 79.6 °C |
| Flash point | -9 °C |
| Auto-ignition temperature | 404 °C |
| Vapour pressure | 101 hPa (at 20 °C) |
| Particle characteristics | No data available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

| | |
|----------------------|---------------------|
| Gas group | : Press. Gas (Liq.) |
| Flame Project length | : < 100 cm |
| Flashback | : Possible |

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating. Incompatible materials.

10.5. Incompatible materials

Oxidizing materials. Acids. Alkalis.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Irritating vapours.

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SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Not classified.

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| | |
|---------------------|-------------|
| LC50 inhalation rat | > 5 mg/l/4h |
|---------------------|-------------|

Dimethyl ether (115-10-6)

| | |
|---------------------|---------------|
| LC50 inhalation rat | 164000 ppm/4h |
|---------------------|---------------|

Ethyl alcohol (64-17-5)

| | |
|---------------|------------------------------|
| LD50 oral rat | 7060 mg/kg (Source: NLM_CIP) |
|---------------|------------------------------|

| | |
|-----------|-------------------------------------|
| LD50 oral | 8300 mg/kg bodyweight Animal: mouse |
|-----------|-------------------------------------|

| | |
|-------------|-------------|
| LD50 dermal | 20000 mg/kg |
|-------------|-------------|

Propylene glycol monomethyl ether (107-98-2)

| | |
|---------------|--------------------------------|
| LD50 oral rat | 5000 mg/kg (Source: JAPAN_GHS) |
|---------------|--------------------------------|

| | |
|-----------------|-----------------------------------------------------------------------------------------|
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
|-----------------|-----------------------------------------------------------------------------------------|

| | |
|--------------------|---------------------------|
| LD50 dermal rabbit | 13 g/kg (Source: NLM_CIP) |
|--------------------|---------------------------|

| | |
|---------------------|---------------------------------------------------|
| LC50 inhalation rat | > 7559 ppm (Exposure time: 6 h Source: OECD_SIDS) |
|---------------------|---------------------------------------------------|

Methyl ethyl ketone (78-93-3)

| | |
|---------------|--------------------------------|
| LD50 oral rat | 2483 mg/kg (Source: JAPAN_GHS) |
|---------------|--------------------------------|

| | |
|--------------------|--------------------------------|
| LD50 dermal rabbit | 5000 mg/kg (Source: JAPAN_GHS) |
|--------------------|--------------------------------|

| | |
|---------------------|--------------|
| LC50 inhalation rat | 11700 ppm/4h |
|---------------------|--------------|

| | |
|---------------------------------|--------------|
| LC50 Inhalation - Rat (Vapours) | 34.5 mg/l/4h |
|---------------------------------|--------------|

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Ethyl alcohol (64-17-5)

| | |
|------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
|------------|----------------------------|

Reproductive toxicity : Not classified.

STOT-single exposure : Not classified.

Propylene glycol monomethyl ether (107-98-2)

| | |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

Methyl ethyl ketone (78-93-3)

| | |
|----------------------|----------------------------------------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |
|----------------------|----------------------------------------------------------------------|

STOT-repeated exposure : Not classified.

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| Ethyl alcohol (64-17-5) | |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 3200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 1730 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other: |
| NOAEL (subchronic, oral, animal/male, 90 days) | < 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| NOAEL (subchronic, oral, animal/female, 90 days) | > 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |

| Propylene glycol monomethyl ether (107-98-2) | |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | > 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |

Aspiration hazard : Not classified.

| 1K FillClean Series E | |
|-----------------------|-------------------|
| Vaporizer | Aerosol |
| Viscosity, kinematic | No data available |

| Dimethyl ether (115-10-6) | |
|---------------------------|-------------------|
| Viscosity, kinematic | No data available |

| Ethyl alcohol (64-17-5) | |
|-------------------------|--------------------------|
| Viscosity, kinematic | 1.492 mm ² /s |

| Propylene glycol monomethyl ether (107-98-2) | |
|----------------------------------------------|--------------------------|
| Viscosity, kinematic | 1.848 mm ² /s |

| Methyl ethyl ketone (78-93-3) | |
|-------------------------------|-------------------|
| Viscosity, kinematic | No data available |

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.

Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified.

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Hazardous to the aquatic environment, long-term (chronic) : Not classified.

| Dimethyl ether (115-10-6) | |
|---------------------------|-------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | > 4.1 g/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static] Source: ECHA) |
| EC50 - Crustacea [1] | > 4.4 g/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | 154.917 mg/l Test organisms (species): other:green algae |

| Ethyl alcohol (64-17-5) | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 14.2 g/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 - Fish [2] | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| EC50 - Crustacea [2] | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 96h - Algae [1] | ≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| ErC50 algae | 1000 mg/l |
| NOEC (chronic) | 9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' |
| NOEC chronic crustacea | 9.6 mg/l |

| Propylene glycol monomethyl ether (107-98-2) | |
|----------------------------------------------|---------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID) |
| EC50 - Crustacea [1] | 23300 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 - Other aquatic organisms [1] | 2954 mg/l Test organisms (species): other aquatic crustacea: |

| Methyl ethyl ketone (78-93-3) | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 3130 – 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| EC50 - Crustacea [1] | > 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 - Crustacea [2] | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC chronic algae | 93 mg/l |

12.2. Persistence and degradability

| 1K FillClean Series E | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| Dimethyl ether (115-10-6) | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| Ethyl alcohol (64-17-5) | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

| Propylene glycol monomethyl ether (107-98-2) | |
|----------------------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

| Methyl ethyl ketone (78-93-3) | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| 1K FillClean Series E | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Dimethyl ether (115-10-6) | |
|---------------------------------------|-------|
| Partition coefficient n-octanol/water | -0.18 |

| Ethyl alcohol (64-17-5) | |
|---------------------------------------|------------------------------|
| Partition coefficient n-octanol/water | -0.35 (at 24 °C (at pH 7.4)) |

| Propylene glycol monomethyl ether (107-98-2) | |
|----------------------------------------------|----------------------------|
| BCF - Fish [1] | (2 dimensionless) |
| Partition coefficient n-octanol/water | < 1 (at 20 °C (at pH 6.8)) |

| Methyl ethyl ketone (78-93-3) | |
|---------------------------------------|--------------------------|
| Partition coefficient n-octanol/water | 0.3 (at 40 °C (at pH 7)) |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

| | |
|------------------------------|---------------------------|
| Ozone | : Not classified. |
| Fluorinated greenhouse gases | : No |
| Other information | : No other effects known. |

SECTION 13 Disposal considerations

| | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Container under pressure. Do not drill or burn even after use. |
| Additional information | : Flammable vapours may accumulate in the container. |

SECTION 14 Transport information

In accordance with DOT / TDG

14.1. UN Number

| | |
|--------------|----------|
| UN-No. (DOT) | : UN1950 |
| UN-No. (TDG) | : UN1950 |

14.2. UN Proper Shipping Name

| | |
|----------------------------|------------|
| Proper Shipping Name (DOT) | : Aerosols |
| Proper Shipping Name (TDG) | : AEROSOLS |

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 2.1
Hazard labels (DOT) : 2.1



TDG

Transport hazard class(es) (TDG) : 2.1
Hazard labels (TDG) : 2.1



14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

DOT

UN-No. (DOT) : UN1950
DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other : 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

TDG

UN-No. (TDG) : UN1950
TDG Special Provisions : 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL.
(2) Subsection (1) does not apply to self-defence spray.

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| | |
|-----------------------------------------------------------------------------|--------|
| Explosive Limit and Limited Quantity Index | : 1 L |
| Excepted quantities (TDG) | : E0 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 75 L |
| Emergency Response Guide (ERG) Number | : 126 |

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

| | |
|-------------------|--------------------------------------------------------------------------------|
| Revision date | : 2025-09-26 |
| Issue date | : 2015-12-08 |
| Other information | : None. |
| Prepared by | : Nexreg Compliance Inc. www.Nexreg.com |



Indication of changes:

SDS update.

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

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