

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PDO-4306

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Smart Chemical Solutions, LLC
3505 Olsen Blvd
Suite 201
Amarillo, TX 79109
T (806) 367-8031

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|-----------------------------------|
| Flammable liquids Category 2 | H225 | Highly flammable liquid and vapor |
| Acute toxicity (inhalation:dust,mist) Category 3 | H331 | Toxic if inhaled |
| Skin corrosion/irritation Category 2 | H315 | Causes skin irritation |
| Serious eye damage/eye irritation Category 2 | H319 | Causes serious eye irritation |
| Germ cell mutagenicity Category 1B | H340 | May cause genetic defects |
| Specific target organ toxicity (single exposure) Category 1 | H370 | Causes damage to organs |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | H336 | May cause drowsiness or dizziness |
| Hazardous to the aquatic environment - Acute Hazard Category 2 | H401 | Toxic to aquatic life |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H331 - Toxic if inhaled
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H370 - Causes damage to organs
H401 - Toxic to aquatic life

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307+P311 - If exposed: Call a poison center/doctor.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P311 - Call a poison center or doctor.

P312 - Call a poison center or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

9.09% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
38.7% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
41.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---------------------|----------|---|
| Xylene | CAS-No.: 1330-20-7 | 20 – 72 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Aquatic Acute 2, H401 |
| Solvent Naphtha (petroleum), heavy arom. | CAS-No.: 64742-94-5 | 0.4 – 19 | Flam. Liq. 4, H227 Acute Tox. 3 (Inhalation:dust,mist), H331 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Toluene | CAS-No.: 108-88-3 | 2 – 16 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 |
| Naphtha, petroleum, heavy catalytic reformed- | CAS-No.: 64741-68-0 | 2 – 12 | Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| o - Xylene | CAS-No.: 95-47-6 | 1.5 – 9 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 |
| Heptane | CAS-No.: 64742-49-0 | 0.4 – 8 | Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| Methanol | CAS-No.: 67-56-1 | 0.4 – 8 | Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370 |
| Isopropanol | CAS-No.: 67-63-0 | 0.4 – 8 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Acetone | CAS-No.: 67-64-1 | 0.4 – 4 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Naphthalene | CAS-No.: 91-20-3 | ≤ 0.15 | Flam. Liq. 4, H227 Acute Tox. 3 (Inhalation:dust,mist), H331 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a doctor. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : 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 | : Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--------------------------------------|
| Symptoms/effects | : May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Eye irritation. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

5.2. Specific hazards arising from the chemical

| | |
|--|--------------------------------------|
| Fire hazard | : Highly flammable liquid and vapor. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Emergency procedures | : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray. |
|----------------------|--|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-----------------|---------------------|
| For containment | : Collect spillage. |
|-----------------|---------------------|

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Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Acetone (67-64-1) | |
|---|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Acetone |
| ACGIH OEL TWA [ppm] | 250 ppm |
| ACGIH OEL STEL [ppm] | 500 ppm |
| Remark (ACGIH) | TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2022 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | ACETONE |
| BEI | 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns |
| Regulatory reference | ACGIH 2022 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Acetone |
| OSHA PEL TWA [1] | 2400 mg/m ³ |

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| Acetone (67-64-1) | |
|--------------------------------|--------------------------|
| OSHA PEL TWA [2] | 1000 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| Methanol (67-56-1) | |
|---|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Methanol |
| ACGIH OEL TWA [ppm] | 200 ppm |
| ACGIH OEL STEL [ppm] | 250 ppm |
| Remark (ACGIH) | TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI |
| Regulatory reference | ACGIH 2022 |

| | |
|--|--|
| USA - ACGIH - Biological Exposure Indices | |
| Local name | METHANOL |
| BEI | 15 mg/l Parameter: Methanol - Medium: urine - Sampling time: End of shift - Notations: B, Ns |
| Regulatory reference | ACGIH 2022 |

| | |
|--|--------------------------|
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Methyl alcohol |
| OSHA PEL TWA [1] | 260 mg/m ³ |
| OSHA PEL TWA [2] | 200 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| Isopropanol (67-63-0) | |
|---|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 2-Propanol |
| ACGIH OEL TWA [ppm] | 200 ppm |
| ACGIH OEL STEL [ppm] | 400 ppm |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2022 |

| | |
|--|--|
| USA - ACGIH - Biological Exposure Indices | |
| Local name | 2-PROPANOL |
| BEI | 40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns |
| Regulatory reference | ACGIH 2022 |

| | |
|--|--------------------------|
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Isopropyl alcohol |
| OSHA PEL TWA [1] | 980 mg/m ³ |
| OSHA PEL TWA [2] | 400 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

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| Toluene (108-88-3) | |
|--|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Toluene |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Remark (ACGIH) | TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2022 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | TOLUENE |
| BEI | 0.3 mg/g Kreatinin Parameter: o-Cresol (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: B 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek |
| Regulatory reference | ACGIH 2022 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Toluene |
| OSHA PEL TWA [2] | 200 ppm |
| OSHA PEL C [ppm] | 300 ppm |
| Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift | 500 ppm 10 mins. |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-2 |
| Xylene (1330-20-7) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Xylene, mixed isomers (Dimethylbenzene) |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Remark (ACGIH) | TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2022 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | XYLENES (Technical or commercial grade) |
| BEI | 1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift |
| Regulatory reference | ACGIH 2022 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Xylenes (o-, m-, p-isomers) |
| OSHA PEL TWA [1] | 435 mg/m ³ |
| OSHA PEL TWA [2] | 100 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

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o - Xylene (95-47-6)

USA - ACGIH - Occupational Exposure Limits

| | |
|---------------------|--------------------|
| ACGIH OEL TWA [ppm] | 100 ppm 100 ppm |
|---------------------|--------------------|

| | |
|----------------------|--------------------|
| ACGIH OEL STEL [ppm] | 150 ppm 150 ppm |
|----------------------|--------------------|

Naphthalene (91-20-3)

USA - ACGIH - Occupational Exposure Limits

| | |
|------------|-------------|
| Local name | Naphthalene |
|------------|-------------|

| | |
|---------------------|--------|
| ACGIH OEL TWA [ppm] | 10 ppm |
|---------------------|--------|

| | |
|----------------|---|
| Remark (ACGIH) | TLV® Basis: URT irr; cararacts; hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
|----------------|---|

| | |
|----------------------|------------|
| Regulatory reference | ACGIH 2022 |
|----------------------|------------|

USA - ACGIH - Biological Exposure Indices

| | |
|------------|-------------|
| Local name | NAPHTHALENE |
|------------|-------------|

| | |
|-----|--|
| BEI | Parameter: 1-Naphthol + 2-Naphthol (with hydrolysis) - Sampling time: End of shift - Notations: Nq, Ns |
|-----|--|

| | |
|----------------------|------------|
| Regulatory reference | ACGIH 2022 |
|----------------------|------------|

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Color | : Yellow |
| Odor | : There may be no odour warning properties |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 7.118 – 7.418 |
| Molecular mass | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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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) : Toxic if inhaled.

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| | |
|---------------------------------|--|
| ATE US (dust, mist) | 0.825 mg/l/4h |
| Unknown acute toxicity (GHS US) | 9.09% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 38.7% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 41.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |

Acetone (67-64-1)

| | |
|---------------------------------|---|
| LD50 oral rat | 5800 mg/kg (Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 15800 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 76 mg/l (4 h, Rat, Female, Weight of evidence, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Vapours) | 76 mg/l Source: ECHA |
| ATE US (oral) | 5800 mg/kg body weight |
| ATE US (vapors) | 76 mg/l/4h |
| ATE US (dust, mist) | 76 mg/l/4h |

Heptane (64742-49-0)

| | |
|-----------------------------|-----------------------------|
| LD50 oral rat | > 5000 mg/kg Source: IUCLID |
| LD50 dermal rabbit | > 3160 mg/kg Source: IUCLID |
| LC50 Inhalation - Rat [ppm] | 73680 ppm Source: IUCLID |
| ATE US (gases) | 73680 ppmV/4h |

Methanol (67-56-1)

| | |
|-----------------------|---|
| LD50 oral rat | 1187 – 2769 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s)) |
| LD50 dermal rabbit | 300 mg/kg Source: ECHA |
| LC50 Inhalation - Rat | 128 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours)) |
| ATE US (oral) | 1187 mg/kg body weight |
| ATE US (dermal) | 300 mg/kg body weight |
| ATE US (gases) | 700 ppmV/4h |
| ATE US (vapors) | 3 mg/l/4h |
| ATE US (dust, mist) | 0.5 mg/l/4h |

Isopropanol (67-63-0)

| | |
|--------------------|--|
| LD50 oral rat | 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |

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| Isopropanol (67-63-0) | |
|--|---|
| LC50 Inhalation - Rat [ppm] | > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral) | 5840 mg/kg body weight |
| ATE US (dermal) | 12890400 mg/kg body weight |
| Toluene (108-88-3) | |
| LD50 oral rat | 5580 mg/kg body weight (Equivalent or similar to EU Method B.1, Rat, Male, Experimental value, Oral, 7 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 28.1 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Vapours) | > 20 mg/l Source: ECHA |
| ATE US (oral) | 5580 mg/kg body weight |
| Solvent Naphtha (petroleum), heavy arom. (64742-94-5) | |
| LD50 oral rat | > 5000 mg/kg Source: IUCLID |
| LD50 dermal rabbit | > 2000 mg/kg Source: RTECS |
| LC50 Inhalation - Rat (Dust/Mist) | > 0.59 mg/l Source: RTECS |
| ATE US (dust, mist) | 0.5 mg/l/4h |
| Xylene (1330-20-7) | |
| LD50 oral rat | 3523 mg/kg Source: ECHA |
| LD50 dermal rabbit | 12126 mg/kg body weight Animal: rabbit, Animal sex: male, Remarks on results: other: |
| LC50 Inhalation - Rat [ppm] | 5922 ppm |
| ATE US (oral) | 3523 mg/kg body weight |
| ATE US (dermal) | 12126 mg/kg body weight |
| ATE US (gases) | 5922 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| o - Xylene (95-47-6) | |
| LD50 oral rat | 3523 mg/kg body weight (Equivalent or similar to EU Method B.1, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 12126 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 27.124 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Single intratracheal instillation to anaesthetised animals, 14 day(s)) |
| ATE US (oral) | 3523 mg/kg body weight |
| ATE US (dermal) | 12126 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |

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Naphthalene (91-20-3)

| | |
|-----------------------------------|-----------------------------|
| LD50 oral rat | > 5000 mg/kg Source: IUCLID |
| LD50 dermal rabbit | > 2000 mg/kg Source: RTECS |
| LC50 Inhalation - Rat (Dust/Mist) | > 0.59 mg/l Source: RTECS |
| ATE US (dust, mist) | 0.5 mg/l/4h |

Naphtha, petroleum, heavy catalytic reformed- (64741-68-0)

| | |
|-----------------------------------|-----------------------------|
| LD50 oral rat | 4800 mg/kg Source: RTECS |
| LD50 dermal rabbit | > 2000 mg/kg Source: IUCLID |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.04 mg/l Source: IUCLID |
| ATE US (oral) | 4800 mg/kg body weight |

Skin corrosion/irritation : Causes skin irritation.

Acetone (67-64-1)

| | |
|----|---------------|
| pH | 5 – 6 (20 °C) |
|----|---------------|

Acetone (67-64-1)

| | |
|----|---------------|
| pH | 5 – 6 (20 °C) |
|----|---------------|

Naphthalene (91-20-3)

| | |
|--|---|
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |

Reproductive toxicity : Not classified
STOT-single exposure : Causes damage to organs. May cause drowsiness or dizziness.

Acetone (67-64-1)

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

Methanol (67-56-1)

| | |
|----------------------|--------------------------|
| STOT-single exposure | Causes damage to organs. |
|----------------------|--------------------------|

Isopropanol (67-63-0)

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

Toluene (108-88-3)

| | |
|------------------------|--|
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |

Toluene (108-88-3)

| | |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--|

Xylene (1330-20-7)

| | |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
|----------------------------|--|

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

o - Xylene (95-47-6)

| | |
|----------------------|--------------------------|
| Viscosity, kinematic | 0.864 mm ² /s |
|----------------------|--------------------------|

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Naphtha, petroleum, heavy catalytic reformed- (64741-68-0)

| | |
|-------------------------------------|---|
| Viscosity, kinematic | < 1 mm ² /s Temp.: 'other.' Parameter: 'kinematic viscosity (in mm ² /s)' |
| Symptoms/effects | : May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Acetone (67-64-1)

| | |
|-----------------|---|
| LC50 - Fish [1] | 6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured concentration) |
| LOEC (chronic) | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

Heptane (64742-49-0)

| | |
|------------------------------------|-------------------------|
| LC50 - Other aquatic organisms [1] | 2.6 mg/l Source: IUCLID |
|------------------------------------|-------------------------|

Methanol (67-56-1)

| | |
|----------------------|--|
| LC50 - Fish [1] | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 96h - Algae [1] | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) |

Isopropanol (67-63-0)

| | |
|-----------------|--|
| LC50 - Fish [1] | 9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
|-----------------|--|

Toluene (108-88-3)

| | |
|----------------------|---|
| LC50 - Fish [1] | 5.5 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 3.78 mg/l Source: ECHA |

Solvent Naphtha (petroleum), heavy arom. (64742-94-5)

| | |
|----------------------|--------------------------|
| LC50 - Fish [1] | 45 mg/l Source: IUCLID |
| EC50 - Crustacea [1] | 0.95 mg/l Source: IUCLID |
| EC50 72h - Algae [1] | 2.5 mg/l Source: IUCLID |

Xylene (1330-20-7)

| | |
|----------------------|--|
| LC50 - Fish [1] | 2.6 mg/l Source: ECHA |
| EC50 - Crustacea [1] | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia |
| LOEC (chronic) | 3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' |

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| o - Xylene (95-47-6) | |
|-----------------------------|--|
| LC50 - Fish [1] | 2.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal) |
| ErC50 algae | 4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

| Naphthalene (91-20-3) | |
|------------------------------|--------------------------|
| LC50 - Fish [1] | 45 mg/l Source: IUCLID |
| EC50 - Crustacea [1] | 0.95 mg/l Source: IUCLID |
| EC50 72h - Algae [1] | 2.5 mg/l Source: IUCLID |

| Naphtha, petroleum, heavy catalytic reformed- (64741-68-0) | |
|---|-------------------------|
| EC50 72h - Algae [1] | 7.4 mg/l Source: IUCLID |

12.2. Persistence and degradability

| Acetone (67-64-1) | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.43 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.92 g O ₂ /g substance |
| ThOD | 2.2 g O ₂ /g substance |

| Methanol (67-56-1) | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 – 1.12 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.42 g O ₂ /g substance |
| ThOD | 1.5 g O ₂ /g substance |

| Isopropanol (67-63-0) | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.19 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.23 g O ₂ /g substance |
| ThOD | 2.4 g O ₂ /g substance |

| Toluene (108-88-3) | |
|---------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 2.15 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.52 g O ₂ /g substance |
| ThOD | 3.13 g O ₂ /g substance |
| BOD (% of ThOD) | 0.69 |

| o - Xylene (95-47-6) | |
|-------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |

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o - Xylene (95-47-6)

| | |
|---------------------------------|-------------------------------------|
| Biochemical oxygen demand (BOD) | 1.64 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.91 g O ₂ /g substance |
| ThOD | 3.125 g O ₂ /g substance |

12.3. Bioaccumulative potential

Acetone (67-64-1)

| | |
|---|--|
| BCF - Fish [1] | 0.69 (Pisces, Literature study) |
| Partition coefficient n-octanol/water (Log Pow) | -0.23 (Test data) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

Heptane (64742-49-0)

| | |
|---|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.1 – 6 Source: IUCLID |
|---|------------------------|

Methanol (67-56-1)

| | |
|---|---|
| BCF - Fish [1] | 1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | -0.77 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

Isopropanol (67-63-0)

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (Weight of evidence approach, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

Toluene (108-88-3)

| | |
|---|---|
| BCF - Fish [1] | 90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 2.73 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

Solvent Naphtha (petroleum), heavy arom. (64742-94-5)

| | |
|---|--------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.9 – 6.1 Source: IUCLID |
|---|--------------------------|

Xylene (1330-20-7)

| | |
|---|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.15 Source: HSDB |
|---|-------------------|

o - Xylene (95-47-6)

| | |
|---|---|
| BCF - Fish [1] | 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 3.12 – 3.2 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

Naphthalene (91-20-3)

| | |
|---|--------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.9 – 6.1 Source: IUCLID |
|---|--------------------------|

Naphtha, petroleum, heavy catalytic reformed- (64741-68-0)

| | |
|---|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.1 – 6 Source: IUCLID |
|---|------------------------|

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12.4. Mobility in soil

Acetone (67-64-1)

| | |
|--|--|
| Surface tension | 23.3 mN/m (20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

Methanol (67-56-1)

| | |
|--|---|
| Mobility in soil | 2.75 Source: HSDB |
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | -0.89 – -0.21 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

Isopropanol (67-63-0)

| | |
|--|--|
| Surface tension | No data available (test not performed) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

Toluene (108-88-3)

| | |
|-----------------|---------------------------------------|
| Surface tension | 27.73 mN/m (25 °C, 0.05 %) |
| Ecology - soil | Low potential for adsorption in soil. |

o - Xylene (95-47-6)

| | |
|--|---|
| Surface tension | 29.76 mN/m (25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.73 (log Koc, Equivalent or similar to OECD 121, Experimental value) |
| Ecology - soil | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. |

12.5. Other soil adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapors may accumulate in the container.




SECTION 14: Transport information

| DOT | IMDG | IATA |
|------------------------|------|------|
| 14.1. UN number | | |
| 1993 | 1993 | 1993 |

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| DOT | IMDG | IATA |
|---|---|---|
| 14.2. Proper Shipping Name | | |
| Flammable liquids, n.o.s. (Xylene) | FLAMMABLE LIQUID, N.O.S. (Xylene) | Flammable liquid, n.o.s. (Xylene) |
| 14.3. Transport hazard class(es) | | |
| 3 | 3 | 3 |
|  Not applicable |  |  |
| 14.4. Packing group | | |
| II | II | II |
| 14.5. Environmental hazards | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | |

14.6. Special precautions for user

DOT
UN-No.(DOT) : UN1993
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

IMDG
Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28, TP8
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG) : B

IATA
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L

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| | |
|---------------------------------|-------|
| CAO packing instructions (IATA) | : 364 |
| CAO max net quantity (IATA) | : 60L |
| Special provision (IATA) | : A3 |
| ERG code (IATA) | : 3H |

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

| | | |
|---|--------------------|----------|
| Acetone | CAS-No. 67-64-1 | 0.4 – 4% |
| Heptane | CAS-No. 64742-49-0 | 0.4 – 8% |
| Isopropanol | CAS-No. 67-63-0 | 0.4 – 8% |
| o - Xylene | CAS-No. 95-47-6 | 1.5 – 9% |
| Naphtha, petroleum, heavy catalytic reformed- | CAS-No. 64741-68-0 | 2 – 12% |

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|-------------|-------------------|----------|
| Methanol | CAS-No. 67-56-1 | 0.4 – 8% |
| Toluene | CAS-No. 108-88-3 | 2 – 16% |
| Xylene | CAS-No. 1330-20-7 | 20 – 72% |
| Naphthalene | CAS-No. 91-20-3 | ≤ 0.15% |

Methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

Toluene (108-88-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 1000 lb

Xylene (1330-20-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 100 lb

Naphthalene (91-20-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 100 lb

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15.2. International regulations

CANADA

Methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

Solvent Naphtha (petroleum), heavy arom. (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List)

Xylene (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

Naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Methanol (67-56-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Toluene (108-88-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Solvent Naphtha (petroleum), heavy arom. (64742-94-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Xylene (1330-20-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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15.3. US State regulations



WARNING:

This product can expose you to Naphthalene, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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Revision date : 10/29/2024

| Full text of H-phrases | |
|------------------------|-----------------------------------|
| H225 | Highly flammable liquid and vapor |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H336 | May cause drowsiness or dizziness |
| H340 | May cause genetic defects |
| H370 | Causes damage to organs |
| H401 | Toxic to aquatic life |

Safety Data Sheet (SDS), USA