



DRIVING SURFACE PERFECTION

RAPTOR CALIPER ENAMEL SATIN BLACK

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
SDS ID: UP4930-US-SDS
Issue date: 6/20/2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : RAPTOR CALIPER ENAMEL SATIN BLACK
Product code : RCESB/AL
UP Number : UP4930

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Coatings and paints, thinners, paint removers
Recommended use : Coatings and paints, thinners, paint removers

1.3. Supplier

Distributor

U-POL US Inc Inc.
50 Applied Bank Blvd., Suite 300 Glen Mills
Pennsylvania, PA 19342
United States
T (610) 746 7081
technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : Australia (CHEMTREC): + (61) - 290372994

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | |
|--|---|
| Flammable aerosol Category 1 | Extremely flammable aerosol |
| Gases under pressure Liquefied gas | Contains gas under pressure; may explode if heated |
| Serious eye damage/eye irritation Category 2 | Causes serious eye irritation |
| Carcinogenicity Category 2 | Suspected of causing cancer |
| Reproductive toxicity Category 2 | Suspected of damaging fertility or the unborn child |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | May cause drowsiness or dizziness |
| Specific target organ toxicity (repeated exposure) Category 2 | May cause damage to organs through prolonged or repeated exposure |

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Extremely flammable aerosol
Contains gas under pressure; may explode if heated
Causes serious eye irritation
May cause drowsiness or dizziness
Suspected of causing cancer

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Precautionary statements (GHS US)

Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.
Pressurized container: Do not pierce or burn, even after use.
Do not breathe fume, spray, vapors.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye protection, protective clothing, protective gloves.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
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)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|-----------------|--------------------|---------|--|
| methyl acetate | CAS-No.: 79-20-9 | 23 – 43 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| n-butyl acetate | CAS-No.: 123-86-4 | 5 – 23 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| Xylene | CAS-No.: 1330-20-7 | < 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 |

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| Name | Product identifier | % | GHS US classification |
|---|---------------------|-----|---|
| ethylbenzene | CAS-No.: 100-41-4 | < 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 |
| hexanoic acid, 2-ethyl-, zinc salt, basic | CAS-No.: 85203-81-2 | < 5 | Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Chronic 3, H412 |

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. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| 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 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 | : Extremely flammable aerosol. |
| 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 | : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe fume, spray, vapors. Avoid contact with skin and eyes. |
|----------------------|---|

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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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. 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 : 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. Pressurized container: Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe fume, spray, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures : 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

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Keep container tightly closed. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| RAPTOR CALIPER ENAMEL SATIN BLACK | |
|---|---------------------------|
| No additional information available | |
| n-butyl acetate (123-86-4) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | n-Butyl acetate |
| ACGIH OEL TWA [ppm] | 50 ppm |
| ACGIH OEL STEL [ppm] | 150 ppm |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | n-Butyl-acetate |
| OSHA PEL (TWA) [1] | 710 mg/m ³ |
| OSHA PEL (TWA) [2] | 150 ppm |

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| n-butyl acetate (123-86-4) | |
|---|---|
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| 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; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2021 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | XYLENES (Technical or commercial grade) |
| BEI (BLV) | 1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift |
| Regulatory reference | ACGIH 2021 |
| 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 |
| ethylbenzene (100-41-4) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Ethylbenzene |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Remark (ACGIH) | TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| Regulatory reference | ACGIH 2021 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | ETHYLBENZENE |
| BEI (BLV) | 0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Ethyl benzene |
| OSHA PEL (TWA) [1] | 435 mg/m ³ |
| OSHA PEL (TWA) [2] | 100 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| methyl acetate (79-20-9) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Methyl acetate |
| ACGIH OEL TWA [ppm] | 200 ppm |

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| methyl acetate (79-20-9) | |
|---|---|
| ACGIH OEL STEL [ppm] | 250 ppm |
| Remark (ACGIH) | TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina) |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Methyl acetate |
| OSHA PEL (TWA) [1] | 610 mg/m ³ |
| OSHA PEL (TWA) [2] | 200 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| hexanoic acid, 2-ethyl-, zinc salt, basic (85203-81-2) | |
| No additional information available | |

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):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Black
Odor : characteristic
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available

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| | |
|---|--------------------------------|
| Boiling point | : No data available |
| Flash point | : -41 °C |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability | : Extremely flammable aerosol. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : 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

| | |
|--------------------------------------|--|
| VOC content | : 663 |
| As Packaged Regulatory VOC | : 666 g/l (5.5 lbs/gal) |
| As Packaged Actual VOC | : 529 g/l (4.4 lbs/gal) |
| As Applied Regulatory VOC | : 666 g/l (5.5 lbs/gal) |
| As Applied Actual VOC | : 529 g/l (4.4 lbs/gal) |
| Percent Solids | : 10.07 wt% |
| Percent Solids | : 9.9 vol % |
| Volatiles | : 89.9 wt% |
| Water Content | : 0 wt% |
| Water Content | : 0 vol % |
| Exempt Compounds by weight | : 24.0 wt% |
| Exempt Compounds by volume | : 20.6 vol % |
| Maximum Incremental Reactivity (MIR) | : 0.77 |
| MIR EPA Aerosol Category | : High Temperature Coating - HTC 1.85 |
| MIR CARB Aerosol Category | : High Temperature Coating - Specialty Coatings (B) - HTC 1.85 |
| Bay Area Aerosol Category | : Specialty Coatings - High Temperature Coating - max. 80% VOC |

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

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) : Not classified

| n-butyl acetate (123-86-4) | |
|-----------------------------------|--|
| LD50 oral rat | 10760 – 12789 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 14112 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 23.4 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Inhalation (mixture of vapour and aerosol), 14 day(s)) |
| LC50 Inhalation - Rat [ppm] | 390 ppm/4h |
| ATE US (oral) | 10760 mg/kg body weight |
| ATE US (gases) | 390 ppmV/4h |
| ATE US (vapors) | 23.4 mg/l/4h |
| ATE US (dust, mist) | 23.4 mg/l/4h |
| Xylene (1330-20-7) | |
| LD50 oral rat | > 4000 mg/kg body weight (Equivalent or similar to EU Method B.1, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | 12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days) |
| LD50 dermal rabbit | 12126 mg/kg body weight Animal: rabbit, Animal sex: male |
| LC50 Inhalation - Rat | 29.09 mg/l (Equivalent or similar to EU Method B.2, 4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s)) |
| LC50 Inhalation - Rat [ppm] | 6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male) |
| ATE US (dermal) | 1100 mg/kg body weight |
| ATE US (gases) | 6700 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| ethylbenzene (100-41-4) | |
| LD50 oral rat | 3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 15433 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral) | 3500 mg/kg body weight |
| ATE US (dermal) | 15433 mg/kg body weight |
| ATE US (vapors) | 17.8 mg/l/4h |
| ATE US (dust, mist) | 17.8 mg/l/4h |

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| methyl acetate (79-20-9) | |
|---|--|
| LD50 oral rat | 6482 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | 49 mg/l |
| ATE US (oral) | 6482 mg/kg body weight |
| ATE US (vapors) | 49 mg/l/4h |
| ATE US (dust, mist) | 49 mg/l/4h |
| hexanoic acid, 2-ethyl-, zinc salt, basic (85203-81-2) | |
| LD50 oral rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 5.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| Xylene (1330-20-7) | |
| IARC group | 3 - Not classifiable |
| ethylbenzene (100-41-4) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| n-butyl acetate (123-86-4) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Xylene (1330-20-7) | |
| STOT-single exposure | May cause respiratory irritation. |
| methyl acetate (79-20-9) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| 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 in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| ethylbenzene (100-41-4) | |
| NOAEL (oral,rat,90 days) | 75 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

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| methyl acetate (79-20-9) | |
|---|--|
| LOAEC (inhalation, rat, vapor, 90 days) | 2000 mg/l |
| NOAEC (inhalation, rat, vapor, 90 days) | 1057 mg/m ³ |
| hexanoic acid, 2-ethyl-, zinc salt, basic (85203-81-2) | |
| NOAEL (subchronic, oral, animal/male, 90 days) | 180 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: other:TSCA (1992) health Effects Testing Guidelines for Subchronic Oral Toxicity Studies. Title 40, CFR 798. 2650. |
| NOAEL (subchronic, oral, animal/female, 90 days) | 205 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:TSCA (1992) health Effects Testing Guidelines for Subchronic Oral Toxicity Studies. Title 40, CFR 798. 2650. |

| | |
|------------------------------------|--------------------------------------|
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects | : May cause drowsiness or dizziness. |
| Symptoms/effects after eye contact | : Eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| n-butyl acetate (123-86-4) | |
|-----------------------------------|--|
| LC50 - Fish [1] | 18 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 44 mg/l Test organisms (species): Daphnia sp. |
| LC50 - Fish [2] | 62 mg/l (Leuciscus idus, static system) |
| ErC50 algae | 397 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) |
| NOEC (chronic) | 23 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea | 23 mg/l |

| Xylene (1330-20-7) | |
|---------------------------|--|
| LC50 - Fish [1] | 2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia |
| ErC50 algae | 4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| NOEC chronic fish | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' |

| ethylbenzene (100-41-4) | |
|--------------------------------|--|
| LC50 - Fish [1] | 5.1 mg/l Test organisms (species): Menidia menidia |
| EC50 - Crustacea [1] | 1.8 – 2.4 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| LOEC (chronic) | 1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC (chronic) | 0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |

| methyl acetate (79-20-9) | |
|---------------------------------|---|
| LC50 - Fish [1] | 250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |

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| methyl acetate (79-20-9) | |
|---|---|
| EC50 - Crustacea [1] | 1026.7 mg/l Test organisms (species): Daphnia magna |
| hexanoic acid, 2-ethyl-, zinc salt, basic (85203-81-2) | |
| LC50 - Fish [1] | 100 mg/l Test organisms (species): Cyprinus carpio |
| EC50 - Crustacea [1] | 0.147 ml/l (Daphnia magna) |

12.2. Persistence and degradability

| n-butyl acetate (123-86-4) | |
|-----------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 2.21 g O ₂ /g substance |

| Xylene (1330-20-7) | |
|-------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |

| ethylbenzene (100-41-4) | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.44 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.1 g O ₂ /g substance |
| ThOD | 3.17 g O ₂ /g substance |

| methyl acetate (79-20-9) | |
|---------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| n-butyl acetate (123-86-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| Xylene (1330-20-7) | |
|---|--|
| BCF - Fish [1] | 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across) |
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (Read-across, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| ethylbenzene (100-41-4) | |
|---|--|
| BCF - Fish [1] | 1 (6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| methyl acetate (79-20-9) | |
|---|--|
| BCF - Fish [1] | < 1 (Pisces, Literature study) |
| Partition coefficient n-octanol/water (Log Pow) | 0.18 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

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12.4. Mobility in soil

n-butyl acetate (123-86-4)

| | |
|--|--|
| Surface tension | 61.3 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. Not toxic to plants. |

Xylene (1330-20-7)

| | |
|--|---|
| Surface tension | 28.01 – 29.76 mN/m (25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across) |
| Ecology - soil | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. |

ethylbenzene (100-41-4)

| | |
|--|--|
| Surface tension | 71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, QSAR) |
| Ecology - soil | Low potential for adsorption in soil. Toxic to soil organisms. |

methyl acetate (79-20-9)

| | |
|--|--|
| Surface tension | 24 mN/m (20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Highly mobile in soil. |

12.5. Other 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.

SECTION 14: Transport information

14.1. UN number

DOT NA No : UN1950
UN-No. (TDG) : UN1950
UN-No. (IMDG) : 1950
UN-No. (IATA) : 1950

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Aerosols
Proper Shipping Name (TDG) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS

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Proper Shipping Name (IATA) : Aerosols, flammable

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

IMDG

Transport hazard class(es) (IMDG) : 2.1

Hazard labels (IMDG) : 2.1



IATA

Transport hazard class(es) (IATA) : 2.1

Hazard labels (IATA) : 2.1



14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

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 Packaging Non Bulk (49 CFR 173.xxx) : None

DOT Packaging Bulk (49 CFR 173.xxx) : None

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

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| | |
|---|---|
| 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 Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting 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. |
| 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 |

IMDG

| | |
|-----------------------------|---|
| Special provision (IMDG) | : 63, 190, 277, 327, 344, 381, 959 |
| Packing instructions (IMDG) | : P207, LP200 |
| Packing provisions (IMDG) | : PP87, L2 |
| EmS-No. (Fire) | : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES |
| EmS-No. (Spillage) | : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE) |
| Stowage category (IMDG) | : None |

IATA

| | |
|--|--------------------|
| PCA Excepted quantities (IATA) | : E0 |
| PCA Limited quantities (IATA) | : Y203 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 203 |
| PCA max net quantity (IATA) | : 75kg |
| CAO packing instructions (IATA) | : 203 |
| CAO max net quantity (IATA) | : 150kg |
| Special provision (IATA) | : A145, A167, A802 |
| ERG code (IATA) | : 10L |

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

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name | CAS-No. | Listing | Commercial status | Flags |
|-----------------|-----------|---------|-------------------|-------|
| n-butyl acetate | 123-86-4 | Present | Active | |
| Xylene | 1330-20-7 | Present | Active | |
| ethylbenzene | 100-41-4 | Present | Active | |
| methyl acetate | 79-20-9 | Present | Active | |

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.

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| | | |
|--------------|-------------------|------|
| Xylene | CAS-No. 1330-20-7 | < 5% |
| ethylbenzene | CAS-No. 100-41-4 | < 5% |

| | | |
|-----------------------------------|---------|--|
| n-butyl acetate (123-86-4) | | |
| CERCLA RQ | 5000 lb | |

| | | |
|--|--------|--|
| Xylene (1330-20-7) | | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | | |
| CERCLA RQ | 100 lb | |

| | | |
|--|---------|--|
| ethylbenzene (100-41-4) | | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | | |
| CERCLA RQ | 1000 lb | |

15.2. International regulations

CANADA

| | | |
|---|--|--|
| n-butyl acetate (123-86-4) | | |
| Listed on the Canadian DSL (Domestic Substances List) | | |

| | | |
|---|--|--|
| Xylene (1330-20-7) | | |
| Listed on the Canadian DSL (Domestic Substances List) | | |

| | | |
|---|--|--|
| ethylbenzene (100-41-4) | | |
| Listed on the Canadian DSL (Domestic Substances List) | | |

| | | |
|---|--|--|
| methyl acetate (79-20-9) | | |
| Listed on the Canadian DSL (Domestic Substances List) | | |

| | | |
|---|--|--|
| hexanoic acid, 2-ethyl-, zinc salt, basic (85203-81-2) | | |
| Listed on the Canadian DSL (Domestic Substances List) | | |

EU-Regulations

No additional information available

National regulations

| | | |
|--|--|--|
| n-butyl acetate (123-86-4) | | |
| Listed on INSQ (Mexican National Inventory of Chemical Substances) | | |


| | | |
|--|--|--|
| ethylbenzene (100-41-4) | | |
| Listed on IARC (International Agency for Research on Cancer) | | |

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15.3. US State regulations

 **WARNING:** This product can expose you to ethylbenzene, which is known to the State of California to cause cancer, and toluene, 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.

| Component | State or local regulations |
|---------------------------|---|
| n-butyl acetate(123-86-4) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Xylene(1330-20-7) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| ethylbenzene(100-41-4) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| methyl acetate(79-20-9) | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

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