

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : ACTIVATOR-INTERMIX 2:1 PRIMER B
 Product code : FEB0179

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

No additional information available

1.3. Details of the supplier of the safety data sheet

Endura Manufacturing Company Ltd.
 12425 149 Street NW
 Edmonton, T5L 2J6 - Canada
 T 1-780-451-4242 - F 1-780-452-5079
info@endura.ca - www.endurapaint.com

1.4. Emergency telephone number

Emergency number : In the event of an emergency involving dangerous goods:
 in Canada call CHEMTREC at 1-800-424-9300 24 hours / 7 days (Account Name for Canada Endura Manufacturing Co. Ltd.)
 in the US call CHEMTREC at 1-800-424-9300 24 hours / 7 days (Account Name for US is Polyglass Coatings)

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 4 | H332 | Harmful if inhaled |
| Skin corrosion/irritation Category 2 | H315 | Causes skin irritation |
| Serious eye damage/eye irritation Category 1 | H318 | Causes serious eye damage |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction |
| Specific target organ toxicity (single exposure) Category 3 | H336 | May cause drowsiness or dizziness |
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May cause damage to organs through prolonged or repeated exposure |

Full text of H statements : see section 16

2.2. Label elements

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
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H332 - Harmful if inhaled
 H336 - May cause drowsiness or dizziness
 H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

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

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P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and 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
P310 - Immediately call a poison center or doctor
P312 - Call a poison center/doctor/physician if you feel unwell
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see 4.1. First aid procedures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) to extinguish
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 in accordance with all local, regional, national and international regulations.

2.3. Other hazards

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

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| Name | Product identifier | wt% | GHS US classification |
|---------------------------------------|---------------------|---------|--|
| xylene, mixture of isomers | (CAS-No.) 1330-20-7 | 47.496 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 |
| toluene | (CAS-No.) 108-88-3 | 21.87 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| 1-butanol | (CAS-No.) 71-36-3 | 5 – 10 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335 |
| 2-butoxyethylacetate | (CAS-No.) 112-07-2 | < 5 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 |
| benzyl alcohol | (CAS-No.) 100-51-6 | < 4.044 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 |
| 2,4,6-tris(dimethylaminomethyl)phenol | (CAS-No.) 90-72-2 | < 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| triethylenetetramine | (CAS-No.) 112-24-3 | < 0.797 | Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| tetraethylenepentamine | (CAS-No.) 112-57-2 | < 0.289 | Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see 4.1. First aid procedures on this label). Wash contaminated clothing before reuse. Rinse skin with water/shower. Remove/Take off all contaminated clothing immediately. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Immediately call a poison center or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Call a poison center/doctor/physician if you feel unwell.

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

- Symptoms/effects : Causes severe skin burns and eye damage. May cause drowsiness or dizziness.
- Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. May cause an allergic skin reaction. May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.
Explosion hazard : May form flammable/explosive vapor-air mixture.
Reactivity : Corrosive vapors. Highly flammable liquid and vapor.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. 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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray. For further information refer to section 8 Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. 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

See Heading 8. Exposure controls and personal protection. For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical/ventilating/lighting equipment. Comply with applicable regulations. Ground/bond container and receiving equipment.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Incompatible products : Strong bases. strong acids.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| xylene, mixture of isomers (1330-20-7) | | |
|--|--------------------------------------|---------------------------|
| ACGIH | Remark (ACGIH) | URT & eye irr; CNS impair |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 435 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| OSHA | OSHA PEL (STEL) (mg/m ³) | 655 mg/m ³ |

| 1-butanol (71-36-3) | | |
|---------------------|-------------------------------------|-----------------------|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | Eye & URT irr |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 300 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

| toluene (108-88-3) | | |
|--------------------|-----------------|--|
| ACGIH | ACGIH TWA (ppm) | 20 ppm (Toluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH | Remark (ACGIH) | Visual impair; female repro; |
| OSHA | Remark (OSHA) | (2) See Table Z-2. |

| 2-butoxyethylacetate (112-07-2) | | |
|---------------------------------|-----------------|-----------|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | Hemolysis |

8.2. Exposure controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear protective gloves. |
| Eye protection | : Chemical goggles or face shield. Safety glasses. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection. |
| Environmental exposure controls | : Avoid release to the environment. |
| Other information | : When using, do not eat, drink or smoke. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Color | : No data available |
| Odor | : characteristic |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 100 °C 212 °F |
| Flash point | : 4.44 °C 40 °F |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |

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| | |
|---|---------------------------|
| Explosion limits | : 1.1 – 11.25 vol % |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Vapor pressure | : No data available |
| Relative density | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Specific gravity / density | : 0.891 g/cm ³ |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : 449 °C 840.2 °F |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

9.2. Other information

| | |
|---|-----------------------------|
| VOC content (Regulatory - Less water and exempt solvents) | : 747.72 g/l 6.24 lb/gal |
| VOC content (Material - Actual) | : 747.72 g/l 6.24 lb/gal |
| Percent Solids (Weight) | : 16.11 % (wt%) |
| Percent Solids (Volume) | : 14.436 % |
| Percent Volatile (Weight) | : 83.89 % |
| Percent Volatile (Volume) | : 85.564 % |

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapors. Highly flammable liquid and vapor.

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------------|--|
| Likely routes of exposure | : Dermal; Inhalation; Skin and eye contact |
| Acute toxicity | : Not classified |

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|--|---|
| ATE US (dust, mist) | 2.711 mg/l/4h |
| xylene, mixture of isomers (1330-20-7) | |
| LD50 oral rat | 3523 – 8600 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 3523 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; >4000 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit | > 4200 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity) |
| LC50 inhalation rat (mg/l) | 29 mg/l/4h (Rat; Experimental value; 27.57 mg/l/4h; Rat; Experimental value) |

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| xylene, mixture of isomers (1330-20-7) | |
|--|---|
| ATE US (oral) | 3523 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| ATE US (vapors) | 29 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| 1-butanol (71-36-3) | |
| LD50 oral rat | 2292 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral) |
| LD50 dermal rabbit | 3430 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal) |
| ATE US (oral) | 2292 mg/kg body weight |
| ATE US (dermal) | 3430 mg/kg body weight |
| benzyl alcohol (100-51-6) | |
| LD50 oral rat | 1620 mg/kg bw/day (Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg (EPA OTS 798.1100, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 4.18 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s)) |
| ATE US (oral) | 1620 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 |
| tetraethylenepentamine (112-57-2) | |
| LD50 oral rat | 3990 mg/kg (Rat; Literature study; 3250 mg/kg bodyweight; Rat; Literature study) |
| LD50 dermal rabbit | 660 mg/kg (Rabbit; Literature study; 660-1260 mg/kg bodyweight; Rabbit; Literature study) |
| ATE US (oral) | 500 mg/kg body weight |
| ATE US (dermal) | 660 mg/kg body weight |
| triethylenetetramine (112-24-3) | |
| LD50 oral rat | 2500 mg/kg (Rat; Literature; 1716 mg/kg bodyweight; Rat; Literature) |
| LD50 dermal rabbit | 805 mg/kg (Rabbit; Literature; 1465 mg/kg bodyweight; Rabbit; Literature) |
| ATE US (oral) | 2500 mg/kg body weight |
| ATE US (dermal) | 805 mg/kg body weight |
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| LD50 oral rat | 2169 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| ATE US (oral) | 2169 mg/kg body weight |
| toluene (108-88-3) | |
| LD50 oral rat | > 2000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | 12223 mg/kg (Rabbit; Literature study; Other; >5000 mg/kg bodyweight; Rabbit; Experimental value) |
| LC50 inhalation rat (mg/l) | > 20 mg/l/4h (Rat; Literature study) |
| ATE US (dermal) | 12223 mg/kg body weight |
| 2-butoxyethylacetate (112-07-2) | |
| LD50 oral rat | 1880 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 1500 mg/kg (24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |
| ATE US (oral) | 1880 mg/kg body weight |
| ATE US (dermal) | 1500 mg/kg body weight |
| ATE US (dust, mist) | 1.5 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

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| | |
|---|----------------------|
| xylene, mixture of isomers (1330-20-7) | |
| IARC group | 3 - Not Classifiable |

| | |
|---------------------------|----------------------|
| toluene (108-88-3) | |
| IARC group | 3 - Not Classifiable |

| | |
|---|--|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : May cause drowsiness or dizziness. |
| Specific target organ toxicity – repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. Harmful if inhaled. |
| Symptoms/effects after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. May cause an allergic skin reaction. May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
|-------------------|---|

| | |
|----------------------------|---|
| 1-butanol (71-36-3) | |
| LC50 fish 1 | 1376 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 1328 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 225 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

| | |
|----------------------------------|---|
| benzyl alcohol (100-51-6) | |
| LC50 fish 1 | 460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 Daphnia 1 | 230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae) | 770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

| | |
|--|--|
| tetraethylenepentamine (112-57-2) | |
| EC50 Daphnia 1 | 24.1 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system) |
| LC50 fish 2 | 420 mg/l (LC50; EU Method C.1; 96 h; Poecilia reticulata; Semi-static system; Fresh water; Experimental value) |
| Threshold limit algae 1 | 0.5 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum) |
| Threshold limit algae 2 | 6.8 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum) |

| | |
|--|---|
| triethylenetetramine (112-24-3) | |
| EC50 Daphnia 1 | 311 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna) |
| LC50 fish 2 | 495 mg/l (LC50; 96 h; Pimephales promelas) |
| Threshold limit algae 1 | ≥ 100 mg/l (ErC50; DIN 38412-9; 72 h; Scenedesmus subspicatus) |

| | |
|--|--|
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| LC50 fish 1 | 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 (algae) | 84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP) |

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| 2-butoxyethylacetate (112-07-2) | |
|--|---|
| LC50 fish 1 | 20 – 40 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Fresh water, Experimental value, Nominal concentration) |
| EC50 Daphnia 1 | 37 mg/l (DIN 38412-11, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae) | 1570 mg/l (ISO 8692, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |

12.2. Persistence and degradability

| ACTIVATOR-INTERMIX 2:1 PRIMER B | |
|--|------------------|
| Persistence and degradability | Not established. |

| xylene, mixture of isomers (1330-20-7) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. Photolysis in the air. |

| 1-butanol (71-36-3) | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.1 – 1.92 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.46 g O ₂ /g substance |
| ThOD | 2.59 g O ₂ /g substance |
| BOD (% of ThOD) | 0.33 – 0.79 |

| benzyl alcohol (100-51-6) | |
|----------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.6 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.4 g O ₂ /g substance |
| ThOD | 2.5 g O ₂ /g substance |

| tetraethylenepentamine (112-57-2) | |
|--|--|
| Persistence and degradability | Not readily biodegradable in water. Low potential for mobility in soil. Adsorbs into the soil. |

| triethylenetetramine (112-24-3) | |
|--|--|
| Persistence and degradability | Not readily biodegradable in water. No (test)data on mobility of the substance available. Photodegradation in the air. |

| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
|--|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

| toluene (108-88-3) | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. |
| 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 |

| 2-butoxyethylacetate (112-07-2) | |
|--|-----------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 2.1 g O ₂ /g substance |

12.3. Bioaccumulative potential

| ACTIVATOR-INTERMIX 2:1 PRIMER B | |
|--|------------------|
| Bioaccumulative potential | Not established. |

| xylene, mixture of isomers (1330-20-7) | |
|---|--|
| BCF fish 2 | 7 – 26 (BCF; 8 weeks; Oncorhynchus mykiss; Flow-through system; Fresh water) |
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (Conclusion by analogy; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| 1-butanol (71-36-3) | |
|-------------------------------|---|
| BCF other aquatic organisms 1 | 3.162 l/kg (BCFBAF v3.01, Calculated value, Fresh weight) |

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| | |
|--|--|
| 1-butanol (71-36-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| benzyl alcohol (100-51-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1 – 1.1 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| tetraethylenepentamine (112-57-2) | |
| BCF other aquatic organisms 1 | 4.2 (BCF) |
| Partition coefficient n-octanol/water (Log Pow) | -3.16 (Calculated; EPIWIN) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| triethylenetetramine (112-24-3) | |
| Partition coefficient n-octanol/water (Log Pow) | -1.86 – -1.41 (Calculated) |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.66 (Experimental value, EPA OPPTS 830.7550: Partition Coefficient (n-octanol/water), Shake Flask Method, 21.5 °C) |
| Bioaccumulative potential | Not bioaccumulative. |
| toluene (108-88-3) | |
| BCF fish 2 | 90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) |
| Partition coefficient n-octanol/water (Log Pow) | 2.73 (Experimental value; Other; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 2-butoxyethylacetate (112-07-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.51 (Experimental value, BASF test, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

| | |
|--|--|
| xylene, mixture of isomers (1330-20-7) | |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
| 1-butanol (71-36-3) | |
| Surface tension | 69.9 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Partition coefficient n-octanol/water (Log Koc) | 0.54 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. May be harmful to plant growth, blooming and fruit formation. |
| benzyl alcohol (100-51-6) | |
| Surface tension | 39 mN/m (20 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 1.122 – 1.332 (log Koc, SRC PCKOCWIN v2.0, QSAR) |
| Ecology - soil | Highly mobile in soil. |
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| Partition coefficient n-octanol/water (Log Koc) | 1.32 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| toluene (108-88-3) | |
| Surface tension | 0.03 N/m (20 °C) |
| 2-butoxyethylacetate (112-07-2) | |
| Surface tension | No data available in the literature |
| Partition coefficient n-octanol/water (Log Koc) | 1.179 – 1.637 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with all local, regional, national and international regulations.
- Additional information : Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint related material (including paint thinning, drying, removing, or reducing compound), 3, II

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint related material including paint thinning, drying, removing, or reducing compound

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

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.

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport document description : UN1263 PAINT RELATED MATERIAL (PAINT RELATED MATERIAL), 3, II

UN-No. (TDG) : UN1263

Proper Shipping Name (Transportation of Dangerous Goods) : PAINT RELATED MATERIAL

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

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| | |
|---|---|
| Packing group | : II - Medium Danger |
| TDG Special Provisions | : 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20 per cent nitrocellulose if the nitrocellulose contains not more than 12.6 per cent nitrogen (by dry mass),83 - Repealed SOR/2014-152 |
| Explosive Limit and Limited Quantity Index | : 5 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 5 |

Transport by sea

| | |
|-----------------------------|--|
| UN-No. (IMDG) | : 1263 |
| Proper Shipping Name (IMDG) | : PAINT RELATED MATERIAL |
| Class (IMDG) | : 3 - Flammable liquids |
| Packing group (IMDG) | : II - substances presenting medium danger |

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US 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

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.

| | | |
|----------------------------|-------------------|---------|
| xylene, mixture of isomers | CAS-No. 1330-20-7 | 47.496% |
| 1-butanol | CAS-No. 71-36-3 | 5 – 10% |
| toluene | CAS-No. 108-88-3 | 21.87% |

xylene, mixture of isomers (1330-20-7)

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ 100 lb

1-butanol (71-36-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ 5000 lb

toluene (108-88-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ 1000 lb

15.2. International regulations

CANADA

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Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

This product can expose you to 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.

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| toluene (108-88-3) | | | | |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No | Yes | Yes | Yes | 7000 |

| xylene, mixture of isomers (1330-20-7) |
|---|
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |

| 1-butanol (71-36-3) |
|---|
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |

| tetraethylenepentamine (112-57-2) |
|--|
| U.S. - New Jersey - Right to Know Hazardous Substance List |

| triethylenetetramine (112-24-3) |
|--|
| U.S. - New Jersey - Right to Know Hazardous Substance List |

| toluene (108-88-3) |
|---|
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |

| 2-butoxyethylacetate (112-07-2) |
|--|
| U.S. - New Jersey - Right to Know Hazardous Substance List |

SECTION 16: Other information

Revision date : 05/11/2022

Other information : None.

Full text of H-phrases:

| | |
|------|---|
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS US Endura

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