

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : 8270 Cal Mix A
 Product code : AL0-130745

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Phenova
 6390 Joyce Dr. Suite 100
 Golden, CO 80403 - United States
 T 1-866-942-2978 - F 1-866-283-0269
info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924
 ChemTel Assistance (International) +1 813-248-0585

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 vapour |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction |
| Carcinogenicity Category 1A | H350 | May cause cancer |
| Reproductive toxicity Category 1B | H360 | May damage fertility or the unborn child |

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 vapour
 H317 - May cause an allergic skin reaction
 H350 - May cause cancer
 H360 - May damage fertility or the unborn child

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.
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 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 water
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P308+P313 - If exposed or concerned: Get medical advice/attention.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.
 P370+P378 - In case of fire: Use media other than water to extinguish.
 P403+P235 - Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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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 | Conc. |
|--|--------------------|-------|
| Methylene Chloride (Component) | (CAS-No.) 75-09-2 | 95.7 |
| benzidine (Component) | (CAS-No.) 92-87-5 | 0.2 |
| 3,3'-dichlorobenzidine (Component) | (CAS-No.) 91-94-1 | 0.2 |
| 4-chloroaniline (Component) | (CAS-No.) 106-47-8 | 0.2 |
| azobenzene (Component) | (CAS-No.) 103-33-3 | 0.1 |
| Bis(2-ethylhexyl) phthalate (Component) | (CAS-No.) 117-81-7 | 0.1 |
| 1,4-dichlorobenzene (Component) | (CAS-No.) 106-46-7 | 0.1 |
| hexachlorobuta-1,3-diene (Component) | (CAS-No.) 87-68-3 | 0.1 |
| hexachloroethane (Component) | (CAS-No.) 67-72-1 | 0.1 |
| 2,4-dinitrotoluene (Component) | (CAS-No.) 121-14-2 | 0.1 |
| hexachlorobenzene (Component) | (CAS-No.) 118-74-1 | 0.1 |
| 2,6-dinitrotoluene (Component) | (CAS-No.) 606-20-2 | 0.1 |
| isophorone (Component) | (CAS-No.) 78-59-1 | 0.1 |
| nitrobenzene (Component) | (CAS-No.) 98-95-3 | 0.1 |
| N-Nitrosodimethylamine (Component) | (CAS-No.) 62-75-9 | 0.1 |
| N-Nirosodi-n-propylamine (Component) | (CAS-No.) 621-64-7 | 0.1 |

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 | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Allow victim to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|---|--|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

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

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 8270 Cal Mix A | | |
|----------------|--------------------------------|-----------------------|
| ACGIH | Local name | Dichloromethane |
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | Remark (ACGIH) | COHb-emia; CNS impair |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | Remark (OSHA) | (2) See Table Z-2. |
| OSHA | Regulatory reference (US-OSHA) | OSHA |

azobenzene (103-33-3)

Not applicable

benzidine (92-87-5)

Not applicable

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| Bis(2-ethylhexyl) phthalate (117-81-7) | | |
|---|--------------------------------------|-------------------------------------|
| ACGIH | Local name | Di(2-ethylhexyl)phthalate (DEHP) |
| ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ |
| ACGIH | Remark (ACGIH) | LRT irr |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |
| OSHA | Regulatory reference (US-OSHA) | OSHA |
| 4-chloroaniline (106-47-8) | | |
| Not applicable | | |
| 1,4-dichlorobenzene (106-46-7) | | |
| ACGIH | Local name | p-Dichlorobenzene |
| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| ACGIH | Remark (ACGIH) | Eye irr; kidney dam |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 450 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 75 ppm |
| OSHA | OSHA PEL (STEL) (mg/m ³) | 675 mg/m ³ |
| OSHA | OSHA PEL (STEL) (ppm) | 110 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA |
| 3,3'-dichlorobenzidine (91-94-1) | | |
| Not applicable | | |
| 2,4-dinitrotoluene (121-14-2) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ |
| 2,6-dinitrotoluene (606-20-2) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ |
| hexachlorobenzene (118-74-1) | | |
| ACGIH | Local name | Hexachlorobenzene |
| ACGIH | ACGIH TWA (mg/m ³) | 0.002 mg/m ³ |
| ACGIH | Remark (ACGIH) | Porphyrin eff; Skin dam; CNS impair |
| ACGIH | Regulatory reference | ACGIH 2018 |
| hexachlorobuta-1,3-diene (87-68-3) | | |
| ACGIH | Local name | Hexachlorobutadiene |
| ACGIH | ACGIH TWA (ppm) | 0.02 ppm |
| ACGIH | Remark (ACGIH) | Kidney dam |
| ACGIH | Regulatory reference | ACGIH 2018 |
| hexachloroethane (67-72-1) | | |
| ACGIH | Local name | Hexachloroethane |
| ACGIH | ACGIH TWA (ppm) | 1 ppm |
| ACGIH | Remark (ACGIH) | Liver & kidney dam |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 10 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA |
| isophorone (78-59-1) | | |
| ACGIH | Local name | Isophorone |

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| isophorone (78-59-1) | | |
|--|-------------------------------------|--|
| ACGIH | ACGIH Ceiling (ppm) | 5 ppm |
| ACGIH | Remark (ACGIH) | Eye & URT irr; CNS impair; |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 140 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 25 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA |
| nitrobenzene (98-95-3) | | |
| ACGIH | Local name | Nitrobenzene |
| ACGIH | ACGIH TWA (ppm) | 1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH | Remark (ACGIH) | MeHb-emia |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| OSHA | Regulatory reference (US-OSHA) | OSHA |
| N-Nitrosodimethylamine (62-75-9) | | |
| Not applicable | | |
| N-Nirosodi-n-propylamine (621-64-7) | | |
| Not applicable | | |
| Methylene Chloride (75-09-2) | | |
| ACGIH | Local name | Dichloromethane |
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | Remark (ACGIH) | COHb-emia; CNS impair |
| ACGIH | Regulatory reference | ACGIH 2018 |
| OSHA | Remark (OSHA) | (2) See Table Z-2. |
| OSHA | Regulatory reference (US-OSHA) | OSHA |

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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| | |
|---|---------------------|
| | : Colorless |
| | : characteristic |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| 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

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| azobenzene (103-33-3) | |
|------------------------------|--|
| LD50 oral rat | 1000 mg/kg (Rat, Literature study, Oral) |
| ATE US (oral) | 1000 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 |
| benzidine (92-87-5) | |
| LD50 oral rat | 309 mg/kg (Rat, Literature study, Oral) |
| ATE US (oral) | 309 mg/kg body weight |

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| Bis(2-ethylhexyl) phthalate (117-81-7) | |
|---|---|
| LD50 dermal rabbit | 19800 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal) |
| ATE US (dermal) | 19800 mg/kg body weight |
| 4-chloroaniline (106-47-8) | |
| LD50 oral rat | 300 - 340 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 7 day(s)) |
| LD50 dermal rabbit | 360 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | 2.34 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours)) |
| ATE US (oral) | 300 mg/kg body weight |
| ATE US (dermal) | 360 mg/kg body weight |
| ATE US (gases) | 700 ppmV/4h |
| ATE US (vapors) | 2.34 mg/l/4h |
| ATE US (dust, mist) | 2.34 mg/l/4h |
| 1,4-dichlorobenzene (106-46-7) | |
| LD50 dermal rat | > 6000 mg/kg (Rat, Dermal) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit, Dermal) |
| LC50 inhalation rat (mg/l) | > 5 mg/l (4 h, Rat, Inhalation) |
| ATE US (oral) | 500 mg/kg body weight |
| 3,3'-dichlorobenzidine (91-94-1) | |
| LD50 oral rat | 7070 mg/kg (Rat, Oral) |
| ATE US (oral) | 7070 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| 2,4-dinitrotoluene (121-14-2) | |
| ATE US (oral) | 100 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 |
| 2,6-dinitrotoluene (606-20-2) | |
| LD50 oral rat | 177 mg/kg (Rat, Oral) |
| ATE US (oral) | 177 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 |
| hexachlorobenzene (118-74-1) | |
| LD50 oral rat | 10000 mg/kg (Rat, Oral) |
| ATE US (oral) | 10000 mg/kg body weight |
| hexachlorobuta-1,3-diene (87-68-3) | |
| LD50 oral rat | 90 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | 1211 mg/kg (Rabbit, Dermal) |
| ATE US (oral) | 90 mg/kg body weight |
| ATE US (dermal) | 1211 mg/kg body weight |
| hexachloroethane (67-72-1) | |
| LD50 oral rat | 4460 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | 32000 mg/kg (Rabbit, Dermal) |
| ATE US (oral) | 4460 mg/kg body weight |
| ATE US (dermal) | 32000 mg/kg body weight |
| isophorone (78-59-1) | |
| LD50 oral rat | 1500 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 13 day(s)) |
| LD50 dermal rabbit | 1200 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | 7 mg/l (4 h, Rat, Male, Experimental value, Inhalation (aerosol), 14 day(s)) |
| ATE US (oral) | 1500 mg/kg body weight |
| ATE US (dermal) | 1200 mg/kg body weight |

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| | |
|---|--|
| isophorone (78-59-1) | |
| ATE US (vapors) | 7 mg/l/4h |
| ATE US (dust, mist) | 7 mg/l/4h |
| nitrobenzene (98-95-3) | |
| LD50 oral rat | 640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat) |
| LD50 dermal rabbit | 760 mg/kg body weight (Rabbit; Experimental value) |
| ATE US (oral) | 100 mg/kg body weight |
| ATE US (dermal) | 760 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 |
| N-Nitrosodimethylamine (62-75-9) | |
| LD50 oral rat | 37 mg/kg (Rat) |
| LC50 inhalation rat (mg/l) | 0.24 mg/l/4h (Rat) |
| LC50 inhalation rat (ppm) | 78 ppm/4h (Rat) |
| ATE US (oral) | 37 mg/kg body weight |
| ATE US (gases) | 78 ppmV/4h |
| ATE US (vapors) | 0.24 mg/l/4h |
| ATE US (dust, mist) | 0.24 mg/l/4h |
| N-Nirosodi-n-propylamine (621-64-7) | |
| LD50 oral rat | 480 mg/kg (Rat) |
| ATE US (oral) | 480 mg/kg body weight |
| Methylene Chloride (75-09-2) | |
| LD50 oral rat | > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rat | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal) |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : May cause cancer. |
| azobenzene (103-33-3) | |
| IARC group | 3 - Not classifiable |
| benzidine (92-87-5) | |
| IARC group | 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | Known Human Carcinogens |
| Bis(2-ethylhexyl) phthalate (117-81-7) | |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| 4-chloroaniline (106-47-8) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| 1,4-dichlorobenzene (106-46-7) | |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| 3,3'-dichlorobenzidine (91-94-1) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| 2,4-dinitrotoluene (121-14-2) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| 2,6-dinitrotoluene (606-20-2) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| hexachlorobenzene (118-74-1) | |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |

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| hexachloroethane (67-72-1) | |
|--|---|
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| nitrobenzene (98-95-3) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| N-Nitrosodimethylamine (62-75-9) | |
| IARC group | 2A - Probably carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| N-Nirosodi-n-propylamine (621-64-7) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |
| Methylene Chloride (75-09-2) | |
| IARC group | 2A - Probably carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

| azobenzene (103-33-3) | |
|---|---|
| LC50 fish 1 | < 1 mg/l (Pisces) |
| benzidine (92-87-5) | |
| LC50 fish 1 | 7.4 mg/l (96 h, Salmo gairdneri, Static system) |
| EC50 Daphnia 1 | 0.6 mg/l (48 h, Daphnia magna) |
| 4-chloroaniline (106-47-8) | |
| LC50 fish 1 | 2.4 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value) |
| 1,4-dichlorobenzene (106-46-7) | |
| LC50 fish 1 | 1.12 mg/l (96 h, Salmo gairdneri, Flow-through system) |
| EC50 Daphnia 1 | 0.7 mg/l (48 h, Daphnia magna, Measured concentration) |
| 3,3'-dichlorobenzidine (91-94-1) | |
| LC50 fish 1 | 0.5 mg/l (96 h, Lepomis macrochirus) |
| 2,6-dinitrotoluene (606-20-2) | |
| LC50 fish 1 | 18.5 - 50 mg/l (96 h, Pimephales promelas) |
| EC50 Daphnia 1 | 21.7 mg/l (48 h, Daphnia magna, Static system) |
| hexachlorobenzene (118-74-1) | |
| LC50 fish 1 | 2.3 mg/l (96 h, Salmo gairdneri) |
| EC50 Daphnia 1 | > 0.03 mg/l (24 h, Daphnia magna) |
| hexachlorobuta-1,3-diene (87-68-3) | |
| LC50 fish 1 | 0.25 mg/l (96 h, Salmo gairdneri) |

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| hexachlorobuta-1,3-diene (87-68-3) | |
|---|---|
| EC50 other aquatic organisms 1 | 0.21 mg/l (96 h, Lymnaea sp.) |
| hexachloroethane (67-72-1) | |
| LC50 fish 1 | 0.84 mg/l (96 h, Salmo gairdneri) |
| EC50 Daphnia 1 | 1.4 mg/l (Daphnia magna) |
| isophorone (78-59-1) | |
| LC50 fish 1 | 228 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1 | 254 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration) |
| nitrobenzene (98-95-3) | |
| LC50 fish 1 | 4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes) |
| EC50 Daphnia 1 | 35 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

| Methylene Chloride (75-09-2) | |
|-------------------------------------|--|
| LC50 fish 1 | 193 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) |
| EC50 Daphnia 1 | 168.2 mg/l (48 h, Daphnia magna) |

12.2. Persistence and degradability

| 8270 Cal Mix A | |
|---|--|
| Persistence and degradability | Not established. |
| azobenzene (103-33-3) | |
| Persistence and degradability | Not readily biodegradable in water. |
| benzidine (92-87-5) | |
| Persistence and degradability | Non degradable in the soil. Not readily biodegradable in water. |
| Bis(2-ethylhexyl) phthalate (117-81-7) | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| 4-chloroaniline (106-47-8) | |
| Persistence and degradability | Non degradable in the soil. Inherently biodegradable. Not readily biodegradable in water. |
| 1,4-dichlorobenzene (106-46-7) | |
| Persistence and degradability | Non degradable in the soil. Readily biodegradable in water. |
| ThOD | 1.52 g O ₂ /g substance |
| BOD (% of ThOD) | 0.65 (Calculated value) |
| 3,3'-dichlorobenzidine (91-94-1) | |
| Persistence and degradability | Inherently biodegradable. Not readily biodegradable in water. |
| 2,4-dinitrotoluene (121-14-2) | |
| Persistence and degradability | Not readily biodegradable in water. |
| Chemical oxygen demand (COD) | 1.6 g O ₂ /g substance |
| 2,6-dinitrotoluene (606-20-2) | |
| Persistence and degradability | Not readily biodegradable in water. |
| hexachlorobenzene (118-74-1) | |
| Persistence and degradability | Non degradable in the soil. Not readily biodegradable in water. Not easily biodegradable in water in anaerobic conditions. |
| hexachlorobuta-1,3-diene (87-68-3) | |
| Persistence and degradability | Biodegradability in soil: no data available. Readily biodegradable in water. |
| hexachloroethane (67-72-1) | |
| Persistence and degradability | Readily biodegradable in water. |
| isophorone (78-59-1) | |
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 2.78 g O ₂ /g substance |

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| nitrobenzene (98-95-3) | |
|---------------------------------|--|
| Persistence and degradability | Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. |
| Biochemical oxygen demand (BOD) | 0 g O ₂ /g substance |
| ThOD | 1.95 g O ₂ /g substance |
| BOD (% of ThOD) | 0 |

| N-Nitrosodimethylamine (62-75-9) | |
|---|---|
| Persistence and degradability | Not readily biodegradable in water. Photolysis in water. Photolysis in the air. |

| Methylene Chloride (75-09-2) | |
|-------------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Not readily biodegradable in water. |

12.3. Bioaccumulative potential

| 8270 Cal Mix A | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| azobenzene (103-33-3) | |
|------------------------------|--|
| Log Pow | 3.82 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| benzidine (92-87-5) | |
|-------------------------------|--|
| BCF fish 1 | 55 (Gambusia affinis) |
| BCF fish 2 | 38 - 42 (908 h, Lepomis macrochirus, Muscles) |
| BCF other aquatic organisms 1 | 2512 (Chlorophyta) |
| BCF other aquatic organisms 2 | 293 (Daphnia magna) |
| Log Pow | 1.34 - 1.81 |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| Bis(2-ethylhexyl) phthalate (117-81-7) | |
|---|--|
| BCF fish 1 | 155 - 886 (56 day(s), Pimephales promelas, Literature study) |
| Log Pow | 7.68 (Experimental value, Other) |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). |

| 4-chloroaniline (106-47-8) | |
|-----------------------------------|---|
| BCF fish 1 | 0.8 - 1.7 (336 h, Cyprinus carpio, Literature study) |
| BCF other aquatic organisms 1 | 260 (24 h, Chlorella fusca, Static system, Fresh water, Experimental value, Fresh weight) |
| Log Pow | 1.87 (Experimental value, Equivalent or similar to OECD 117) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| 1,4-dichlorobenzene (106-46-7) | |
|---------------------------------------|---|
| BCF fish 1 | 214 - 720 (Salmo gairdneri, Chronic) |
| Log Pow | 3.39 - 3.62 (Experimental value) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |

| 3,3'-dichlorobenzidine (91-94-1) | |
|---|--|
| BCF fish 1 | 507 (168 h, Lepomis macrochirus) |
| BCF fish 2 | 43 - 213 (Cyprinus carpio, Test duration: 8 weeks) |
| BCF other aquatic organisms 1 | 940 (Algae) |
| Log Pow | 3.02 - 3.78 (Literature study) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |

| 2,4-dinitrotoluene (121-14-2) | |
|--------------------------------------|--|
| BCF fish 1 | 102.8 (336 h, Lepomis macrochirus) |
| BCF fish 2 | 16 - 204 (Poecilia reticulata) |
| BCF other aquatic organisms 1 | 13 (96 h, Daphnia magna) |
| BCF other aquatic organisms 2 | 58 (96 h, Annelida) |
| Log Pow | 1.98 - 2.8 |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| 2,6-dinitrotoluene (606-20-2) | |
|--------------------------------------|--------------------------|
| BCF fish 1 | 22 (Poecilia reticulata) |
| BCF other aquatic organisms 1 | 5225 (Algae, Biomass) |

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| | |
|--|---|
| 2,6-dinitrotoluene (606-20-2) | |
| Log Pow | 1.72 - 2.05 |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| hexachlorobenzene (118-74-1) | |
| BCF fish 1 | 20000 (Salmo gairdneri, Test duration: 8 weeks) |
| BCF fish 2 | 30000 (Cyprinus carpio, Test duration: 8 weeks) |
| BCF other aquatic organisms 1 | 25000 (Algae) |
| BCF other aquatic organisms 2 | 1130 (720 h, Daphnia magna) |
| Log Pow | 5.73 - 6.39 (Experimental value) |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |
| hexachlorobuta-1,3-diene (87-68-3) | |
| BCF fish 1 | 17000 (Salmo gairdneri) |
| BCF fish 2 | 7000 (Pleuronectes platessa, Flow-through system) |
| BCF other aquatic organisms 1 | 45.36 (Procambarus sp., Flow-through system) |
| BCF other aquatic organisms 2 | 3000 (Mytilus edulis, Flow-through system) |
| Log Pow | 3.74 - 4.90 |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |
| hexachloroethane (67-72-1) | |
| BCF fish 1 | 1200 (Salmo gairdneri) |
| BCF fish 2 | 756 mg/l (768 h, Pimephales promelas) |
| Log Pow | 3.34 - 4.62 |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |
| isophorone (78-59-1) | |
| BCF fish 1 | 7 (Other, 14 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight) |
| Log Pow | 1.67 (Experimental value, Equivalent or similar to OECD 107, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| nitrobenzene (98-95-3) | |
| BCF fish 1 | 15 (BCF; 672 h) |
| BCF fish 2 | 1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value) |
| BCF other aquatic organisms 1 | 24 (BCF) |
| Log Pow | 1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| N-Nitrosodimethylamine (62-75-9) | |
| Log Pow | -0.77 - -0.57 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| N-Nirosodi-n-propylamine (621-64-7) | |
| Log Pow | 1.31 - 1.36 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| Methylene Chloride (75-09-2) | |
| BCF fish 1 | 2 - 40 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Semi-static system, Fresh water, Experimental value, GLP) |
| Log Pow | 1.25 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

| | |
|------------------------------|---|
| azobenzene (103-33-3) | |
| Ecology - soil | No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation. |
| benzidine (92-87-5) | |
| Ecology - soil | Adsorbs into the soil. |

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| | |
|---|---|
| Bis(2-ethylhexyl) phthalate (117-81-7) | |
| Surface tension | 0.032 N/m (20 °C) |
| Log Koc | 5.2 (log Koc, Calculated value) |
| Ecology - soil | Adsorbs into the soil. Low potential for mobility in soil. |
| 4-chloroaniline (106-47-8) | |
| Ecology - soil | No (test)data on mobility of the substance available. Soil contaminant. |
| 1,4-dichlorobenzene (106-46-7) | |
| Surface tension | 0.03 N/m (55 °C) |
| Ecology - soil | Adsorbs into the soil. |
| 2,4-dinitrotoluene (121-14-2) | |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
| hexachlorobenzene (118-74-1) | |
| Ecology - soil | Adsorbs into the soil. Not toxic to bees. |
| hexachlorobuta-1,3-diene (87-68-3) | |
| Ecology - soil | Soil contaminant. |
| isophorone (78-59-1) | |
| Surface tension | 32 mN/m (20 °C) |
| Log Koc | 1.766 (log Koc, QSAR) |
| Ecology - soil | Highly mobile in soil. |
| nitrobenzene (98-95-3) | |
| Surface tension | 0.0439 N/m |
| Log Koc | Koc,Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value |
| Ecology - soil | Low potential for adsorption in soil. |
| Methylene Chloride (75-09-2) | |
| Surface tension | 0.028 N/m (20 °C) |
| Ecology - soil | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. |

12.5. Other adverse effects

| | |
|---|--|
| 8270 Cal Mix A | |
| | |
| azobenzene (103-33-3) | |
| | |
| benzidine (92-87-5) | |
| | |
| Bis(2-ethylhexyl) phthalate (117-81-7) | |
| | |
| 4-chloroaniline (106-47-8) | |
| | |
| 1,4-dichlorobenzene (106-46-7) | |
| | |
| 3,3'-dichlorobenzidine (91-94-1) | |
| | |
| 2,4-dinitrotoluene (121-14-2) | |
| | |
| 2,6-dinitrotoluene (606-20-2) | |
| | |
| hexachlorobenzene (118-74-1) | |
| | |

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| | |
|--|--|
| hexachlorobuta-1,3-diene (87-68-3) | |
| hexachloroethane (67-72-1) | |
| isophorone (78-59-1) | |
| nitrobenzene (98-95-3) | |
| N-Nitrosodimethylamine (62-75-9) | |
| N-Nirosodi-n-propylamine (621-64-7) | |
| Methylene Chloride (75-09-2) | |

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2810 Toxic, liquids, organic, n.o.s. (benzidine ; 3,3'-dichlorobenzidine ; 4-chloroaniline ; di-2-ethylhexylphthalate), 6.1, III
UN-No.(DOT) : UN2810
Proper Shipping Name (DOT) : Toxic, liquids, organic, n.o.s.
benzidine ; 3,3'-dichlorobenzidine ; 4-chloroaniline ; di-2-ethylhexylphthalate
Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 6.1 - Poison



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Symbols : G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T7 - 4 178.274(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.
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) : 153

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DOT Quantity Limitations Passenger aircraft/rail : 60 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L
CFR 175.75)

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 : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number : 153

Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (benzidine ; 3,3'-dichlorobenzidine ; 4-chloroaniline ; di-2-ethylhexylphthalate), 6.1, III

UN-No. (IMDG) : 2810

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Class (IMDG) : 6.1 - Toxic substances

Packing group (IMDG) : III - substances presenting low danger

Air transport

Transport document description (IATA) : UN 2810 Toxic liquid, organic, n.o.s. (benzidine ; 3,3'-dichlorobenzidine ; 4-chloroaniline ; di-2-ethylhexylphthalate), 6.1, III

UN-No. (IATA) : 2810

Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s.

Class (IATA) : 6.1 - Toxic Substances

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

azobenzene (103-33-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

benzidine (92-87-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

Listed on EPA Hazardous Air Pollutant (HAPS)

EPA TSCA Regulatory Flag : S - S - indicates a substance that is identified in a final Significant New Use Rule.

CERCLA RQ : 1 lb

Bis(2-ethylhexyl) phthalate (117-81-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ : 100 lb

4-chloroaniline (106-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ : 1000 lb

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| | |
|--|---|
| 1,4-dichlorobenzene (106-46-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 100 lb |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard |
| 3,3'-dichlorobenzidine (91-94-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 1 lb |
| 2,4-dinitrotoluene (121-14-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 10 lb |
| 2,6-dinitrotoluene (606-20-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 100 lb |
| hexachlorobenzene (118-74-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 10 lb |
| hexachlorobuta-1,3-diene (87-68-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 1 lb |
| hexachloroethane (67-72-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| EPA TSCA Regulatory Flag | TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule. |
| CERCLA RQ | 100 lb |
| isophorone (78-59-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 5000 lb |
| nitrobenzene (98-95-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 1000 lb |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 10000 lb |

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| N-Nitrosodimethylamine (62-75-9) | |
|--|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| CERCLA RQ | 10 lb |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 10 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb |
| N-Nirosodi-n-propylamine (621-64-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 10 lb |
| Methylene Chloride (75-09-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| Listed on EPA Hazardous Air Pollutant (HAPS) | |
| EPA TSCA Regulatory Flag | R - R - indicates a substance that is the subject of a TSCA section 6 risk management rule. |
| CERCLA RQ | 1000 lb |

15.2. International regulations

CANADA

| azobenzene (103-33-3) | |
|--|--|
| Listed on the Canadian DSL (Domestic Substances List) | |
| benzidine (92-87-5) | |
| Listed on the Canadian NDSL (Non-Domestic Substances List) | |
| Bis(2-ethylhexyl) phthalate (117-81-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| 4-chloroaniline (106-47-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| 1,4-dichlorobenzene (106-46-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| 3,3'-dichlorobenzidine (91-94-1) | |
| Listed on the Canadian NDSL (Non-Domestic Substances List) | |
| 2,4-dinitrotoluene (121-14-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| 2,6-dinitrotoluene (606-20-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| hexachlorobenzene (118-74-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| hexachlorobuta-1,3-diene (87-68-3) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| hexachloroethane (67-72-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| isophorone (78-59-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| nitrobenzene (98-95-3) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| N-Nitrosodimethylamine (62-75-9) | |
| Listed on the Canadian NDSL (Non-Domestic Substances List) | |
| N-Nirosodi-n-propylamine (621-64-7) | |
| Listed on the Canadian NDSL (Non-Domestic Substances List) | |

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Methylene Chloride (75-09-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

benzidine (92-87-5)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

Bis(2-ethylhexyl) phthalate (117-81-7)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

4-chloroaniline (106-47-8)

Listed on IARC (International Agency for Research on Cancer)

1,4-dichlorobenzene (106-46-7)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

3,3'-dichlorobenzidine (91-94-1)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

2,4-dinitrotoluene (121-14-2)

Listed on IARC (International Agency for Research on Cancer)
Listed on EPA Hazardous Air Pollutant (HAPS)

2,6-dinitrotoluene (606-20-2)

Listed on IARC (International Agency for Research on Cancer)

hexachlorobenzene (118-74-1)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

hexachlorobuta-1,3-diene (87-68-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

hexachloroethane (67-72-1)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

isophorone (78-59-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

nitrobenzene (98-95-3)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

N-Nitrosodimethylamine (62-75-9)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

N-Nirosodi-n-propylamine (621-64-7)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)

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Methylene Chloride (75-09-2)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulations

azobenzene (103-33-3)

| | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 6 µg/day | |

benzidine (92-87-5)

| | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 0.001 µg/day | |

Bis(2-ethylhexyl) phthalate (117-81-7)

| | | | | | |
|---|---|---|---|----------------------------------|--|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | Yes | No | Yes | 310 µg/day | 4200 µg/day (intravenous), Adult; 600 µg/day (intravenous), Infant boys, age 29 days - 24 mos; 210 µg/day (intravenous), Neonatal infant boys, age 0 - 28 days; 410 µg/day (oral), Adult; 58 µg/day (oral), Infant boys, age 29 days - 24 mos; 20 µg/day (oral), Neonatal infant boys, age 0 - 28 days |

4-chloroaniline (106-47-8)

| | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 1.5 µg/day | |

1,4-dichlorobenzene (106-46-7)

| | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 20 µg/day | |

3,3'-dichlorobenzidine (91-94-1)

| | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 0.6 µg/day | |

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| 2,4-dinitrotoluene (121-14-2) | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | Yes | 2 µg/day | |
| 2,6-dinitrotoluene (606-20-2) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | Yes | | |
| hexachlorobenzene (118-74-1) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | Yes | No | No | 0.4 µg/day | |
| hexachlorobuta-1,3-diene (87-68-3) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | | |
| hexachloroethane (67-72-1) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 20 µg/day | |
| nitrobenzene (98-95-3) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | Yes | | |
| N-Nitrosodimethylamine (62-75-9) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 0.04 µg/day | |
| N-Nirosodi-n-propylamine (621-64-7) | | | | | |
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 0.1 µg/day | |

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| Methylene Chloride (75-09-2) | | | | | |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | 50 µg/day | |

SECTION 16: Other information

Revision date : 09/16/2019

Other information : None.

Full text of H-phrases:

| | |
|------|--|
| H225 | Highly flammable liquid and vapour |
| H317 | May cause an allergic skin reaction |
| H350 | May cause cancer |
| H360 | May damage fertility or the unborn child |

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