

Atrazine Standard

Safety Data Sheet according to Regulation (EC) No. 453/2010 Date of issue: 08/04/2014 Revision date: 15/05/2015

Version: 1.1

| SECTION 1: Identification of the | substance/mixture and of the company/undertaking |
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| d d Duoduot Islandifian | |
| 1.1. Product identifier Product form | : Mixture |
| Product name | : Atrazine Standard |
| Product code | : AL0-101271 |
| Product group | : Trade product |
| 1.2. Relevant identified uses of the | substance or mixture and uses advised against |
| 1.2.1. Relevant identified uses | |
| Main use category | : Laboratory Use |
| Industrial/Professional use spec | : Industrial |
| ······ | For professional use only |
| Use of the substance/mixture | : Certified reference material for laboratory use only |
| 1.2.2. Uses advised against | |
| No additional information available | |
| 1.3. Details of the supplier of the sa | fetv data sheet |
| Phenova | |
| 6390 Joyce Dr. Suite 100 | |
| 80403 Golden, CO - 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: Hazards identification | on |
| 2.1. Classification of the substance | or mixture |
| | |
| Classification according to Regulation (| EC) No. 1272/2008 [CLP] |
| Classification according to Regulation (| EC) No. 1272/2008 [CLP] |
| Classification according to Regulation (E Flam. Liq. 2 H225 | EC) No. 1272/2008 [CLP] |
| | EC) No. 1272/2008 [CLP] |
| Flam. Liq. 2 H225 | EC) No. 1272/2008 [CLP] |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 | EC) No. 1272/2008 [CLP] |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 | |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Classification according to Directive 67/9 F; R11 | |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Classification according to Directive 67/9 F; R11 Xi; R36 | |
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| Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Classification according to Directive 67/9 F; R11 Xi; R36 R66 | |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Classification according to Directive 67/9 F; R11 Xi; R36 R66 R67 | |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Classification according to Directive 67 /9 F; R11 Xi; R36 R66 R67 Full text of R-phrases: see section 16 | 548/EEC [DSD] or 1999/45/EC [DPD] |
| Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Classification according to Directive 67/ F; R11 Xi; R36 R66 R67 Full text of R-phrases: see section 16 Adverse physicochemical, human health | 548/EEC [DSD] or 1999/45/EC [DPD] |
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| | P233 - Keep container tightly P261 - Avoid breathing dust/ P271 - Use only outdoors or P280 - Wear protective glove P308+P313 - IF exposed or of P403+P235 - Store in a well- P405 - Store locked up | ume/gas/mist/vapors/spray n a well-ventilated area s/protective clothing/eye pro concerned: Get medical adv | |
|--|---|--|--|
| EUH phrases | : EUH208 - Contains atrazine(EUH066 - Repeated exposur | | |
| No labeling applicable | | | - |
| 2.3. Other hazards | | | |
| lo additional information available | | | |
| SECTION 3: Composition/inform | ation on ingredients | | |
| 3.1. Substance | | | |
| lot applicable | | | |
| .2. Mixture | | | |
| | | | |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| acetone (Component) | (CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00- | 8 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| atrazine (Component) | (CAS No) 1912-24-9 (EC no) 217-617-8 (EC index no) 613-068-00- | 7 | Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| | | | |
| ECTION 4: First aid moasuros | | | |
| | | | |
| ECTION 4: First aid measures .1. Description of first aid measure irst-aid measures general | : Never give anything by mout medical advice/attention. | n to an unconscious person. | IF exposed or concerned: Get |
| .1. Description of first aid measure | : Never give anything by mout medical advice/attention. | d keep at rest in a position of | IF exposed or concerned: Get comfortable for breathing. Call a |
| .1. Description of first aid measure irst-aid measures general irst-aid measures after inhalation | Never give anything by mout medical advice/attention. Remove victim to fresh air ar POISON CENTER or doctor/ | d keep at rest in a position o physician if you feel unwell. . Remove/Take off immedia | comfortable for breathing. Call a tely all contaminated clothing. |
| .1. Description of first aid measure irst-aid measures general | Never give anything by mout medical advice/attention. Remove victim to fresh air ar POISON CENTER or doctor/ Rinse skin with water/shower Repeated exposure may cau | d keep at rest in a position ohysician if you feel unwell. . Remove/Take off immedia se skin dryness or cracking. | comfortable for breathing. Call a tely all contaminated clothing. |
| Description of first aid measure rst-aid measures general rst-aid measures after inhalation rst-aid measures after skin contact rst-aid measures after eye contact | Never give anything by mout medical advice/attention. Remove victim to fresh air ar POISON CENTER or doctor/ Rinse skin with water/shower Repeated exposure may cau Rinse immediately with plent | d keep at rest in a position (physician if you feel unwell. . Remove/Take off immedia se skin dryness or cracking. / of water. Obtain medical a | comfortable for breathing. Call a tely all contaminated clothing. |
| 1. Description of first aid measure irst-aid measures general irst-aid measures after inhalation irst-aid measures after skin contact | Never give anything by mout medical advice/attention. Remove victim to fresh air ar POISON CENTER or doctor/ Rinse skin with water/showen Repeated exposure may cau Rinse immediately with plent persist. Rinse mouth. Do NOT induced | d keep at rest in a position o physician if you feel unwell. . Remove/Take off immedia se skin dryness or cracking. / of water. Obtain medical a | comfortable for breathing. Call a tely all contaminated clothing. |

No additional information available

| SECTION 5: Firefighting measure | S |
|---------------------------------------|---|
| 5.1. 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. Special hazards arising from the | substance or mixture |
| Fire hazard | : Highly flammable liquid and vapor. |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |
| 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. |
| SECTION 6: Accidental release m | easures |
| 6.1. Personal precautions, protective | equipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |

Emergency procedures

: Evacuate unnecessary personnel.

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| 6.1.2. For emergency responders | |
| Protective equipment | : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray. |
| Emergency procedures | : Ventilate area. |
| 6.2. Environmental precautions | |
| Prevent entry to sewers and public waters. N | lotify authorities if liquid enters sewers or public waters. |
| 6.3. Methods and material for contai | nment 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 perso | onal protection. |
| SECTION 7: Handling and storage | 9 |
| 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 eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. |
| Hygiene measures | : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. |
| 7.2. Conditions for safe storage, incl | uding any incompatibilities |
| Technical measures | Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. |
| Storage conditions | : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source. |
| Incompatible products | : Strong bases. Strong acids. |

: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Incompatible materials

No additional information available

| 8.2. Exposure controls | | |
|---|---|--|
| Appropriate engineering controls | : Either local exhaust or general room ventilation is usually required. | |
| Personal protective equipment | : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses. | |
| | | |
| Hand protection | : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration. | |
| Eye protection | : Chemical goggles or safety glasses. Safety glasses. | |
| Skin and body protection | : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. | |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. | |
| Other information | : Do not eat, drink or smoke during use. | |
| SECTION 9: Physical and chemical properties | | |
| 9.1. Information on basic physical and o | hemical properties | |
| Physical state | : Liquid | |

| Boiling point | : No data available |
|----------------|---------------------|
| Freezing point | : No data available |
| Melting point | : No data available |
| рН | : No data available |
| Odor | : characteristic. |
| Color | : Colorless. |
| Physical state | : Liquid |
| | |

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| according to Regulation (EC) No. 453/2010 | |
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| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Highly flammable liquid and vapor |
| Relative density | : No data available |
| Solubility | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosion limits | : 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. Highly flammable liquid and vap | or. 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 temperature | es. Open flame. |
| | |
| 10.5. Incompatible materials Strong acids. Strong bases. | |
| | |
| 10.6. Hazardous decomposition products | |
| fume. Carbon monoxide. Carbon dioxide. May rel | lease flammable gases. |
| SECTION 11: Toxicological informati | on |
| | |
| 11.1. Information on toxicological effects | |
| 11.1. Information on toxicological effects Acute toxicity | : Not classified |
| Acute toxicity | : Not classified |
| Acute toxicity atrazine (1912-24-9) | |
| Acute toxicity | 672 mg/kg (Rat) |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat | |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat | 672 mg/kg (Rat) 7500 mg/kg (Rat) |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dust, mist) acetone (67-64-1) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (vapors) ATE CLP (dust, mist) acetone (67-64-1) LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) acetone (67-64-1) LD50 dermal rabbit LC50 inhalation rat (mg/l) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) acetone (67-64-1) LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE CLP (oral) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Fquivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) acetone (67-64-1) LD50 dermal rat LD50 oral rat LD50 oral rat LD50 oral rat LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (oral) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 mg/kg body weight |
| Acute toxicity atrazine (1912-24-9) LD50 oral rat LD50 dermal rat LC50 inhalation rat (mg/l) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dust, mist) acetone (67-64-1) LD50 dermal rat LD50 oral rat LD50 oral rat LD50 oral rat LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 mg/kg body weight 30000.000 ppmV/4h |
| Acute toxicityatrazine (1912-24-9)LD50 oral ratLD50 dermal ratLC50 inhalation rat (mg/l)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dust, mist)acetone (67-64-1)LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (gases)ATE CLP (vapors) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 mg/kg body weight 30000.000 ppmV/4h 71.000 mg/l/4h |
| Acute toxicityatrazine (1912-24-9)LD50 oral ratLD50 dermal ratLC50 inhalation rat (mg/l)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist)acetone (67-64-1)LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (gases)ATE CLP (ust, mist)ATE CLP (dust, mist) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 ppmV/4h 71.000 mg/l/4h 71.000 mg/l/4h |
| Acute toxicityatrazine (1912-24-9)LD50 oral ratLD50 dermal ratLC50 inhalation rat (mg/l)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dust, mist)acetone (67-64-1)LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (gases)ATE CLP (vapors) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 ppm//4h 71.000 mg//4h 71.000 mg//4h 71.000 mg//4h 71.000 mg//4h |
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| Acute toxicityatrazine (1912-24-9)LD50 oral ratLD50 dermal ratLC50 inhalation rat (mg/l)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist)acetone (67-64-1)LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (gases)ATE CLP (ust, mist)ATE CLP (dust, mist) | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 pm//4h (Rat; Experimental value) 5800.000 mg/kg body weight 30000.000 pmV/4h 71.000 mg/l/4h 71.000 mg/l/4h 71.000 mg/l/4h 71.000 mg/l/4h ? Not classified Repeated exposure may cause skin dryness or cracking : Causes serious eye irritation. |
| Acute toxicityatrazine (1912-24-9)LD50 oral ratLD50 dermal ratLC50 inhalation rat (mg/l)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dust, mist)acetone (67-64-1)LD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist)Skin corrosion/irritationSerious eye damage/irritation | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 pm//4h (Rat; Experimental value) 5800.000 mg/kg body weight 30000.000 ppm//4h (Rat; Experimental value) 5800.000 mg/kg body weight 30000.000 ppm//4h 71.000 mg/l/4h 71.000 |
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| Acute toxicityatrazine (1912-24-9)LD50 oral ratLD50 dermal ratLC50 inhalation rat (mg/l)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dust, mist)acetone (67-64-1)LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist)Skin corrosion/irritationSerious eye damage/irritation | 672 mg/kg (Rat) 7500 mg/kg (Rat) 5.2 mg/l/4h (Rat) 672.000 mg/kg body weight 7500.000 mg/kg body weight 7500.000 mg/kg body weight 5.200 mg/l/4h 5.200 mg/l/4h 5.200 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rat; Experimental value; To mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 ppm/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) 30000 opm/4h (Rat; Experimental value) 5800.000 mg/kg body weight 20000.000 ppm//4h 71.000 mg/l/4h 71.000 mg/l/4h |

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| Carcinogenicity | : Not classified |
|---|--|
| | Based on available data, the classification criteria are not met May cause cancer |
| Reproductive toxicity | : Not classified |
| | Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated | : Not classified |
| exposure) | Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified |
| | Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

| SECTION 12: Ecological information | | |
|---|--|--|
| 12.1. Toxicity | | |
| atrazine (1912-24-9) | | |
| LC50 fish 1 | 4.3 mg/l (96 h; Poecilia reticulata) | |
| EC50 Daphnia 1 | 36.5 mg/l (48 h; Daphnia pulex) | |
| LC50 fish 2 | 4.5 - 8.8 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) | |
| TLM fish 1 | 5.4 - 8.4,Lepomis macrochirus; Chronic | |
| TLM fish 2 | 12.6 mg/l (48 h; Salmo gairdneri (Oncorhynchus mykiss); Fresh water) | |
| Threshold limit other aquatic organisms 1 | 50 mg/l (Rutilus rutilus) | |
| Threshold limit algae 1 | 0.03 mg/l (Scenedesmus quadricauda) | |
| Threshold limit algae 2 | 0.01 mg/l (Diatomeae; Salt water) | |
| acetone (67-64-1) | | |
| LC50 fish 1 | 6210 mg/l (96 h; Pimephales promelas; Nominal concentration) | |
| EC50 Daphnia 1 | 8800 mg/l (48 h; Daphnia pulex) | |
| LC50 fish 2 | 5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) | |
| TLM fish 1 | 13000 ppm (96 h; Gambusia affinis; Turbulent water) | |
| TLM fish 2 | > 1000 ppm (96 h; Pisces) | |
| Threshold limit other aquatic organisms 1 | 3000 mg/l (Plankton) | |
| Threshold limit other aquatic organisms 2 | 28 mg/l (Protozoa) | |
| Threshold limit algae 1 | 7500 mg/l (Scenedesmus quadricauda; pH = 7) | |
| Threshold limit algae 2 | 3400 mg/l (48 h; Chlorella sp.) | |

| 12.2. | Persistence and degradability |
|-------|-------------------------------|
|-------|-------------------------------|

| Atrazine Standard | | |
|---------------------------------|---|--|
| Persistence and degradability | Not established. | |
| atrazine (1912-24-9) | | |
| Persistence and degradability | Not readily biodegradable in water. Biodegradability in soil: no data available. | |
| acetone (67-64-1) | | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. | |
| Biochemical oxygen demand (BOD) | 1.43 g O /g substance | |
| Chemical oxygen demand (COD) | 1.92 g O /g substance | |
| ThOD | 2.20 g O /g substance | |
| BOD (% of ThOD) | (20 day(s)) 0.872 | |
| 12.3. Bioaccumulative potential | | |
| Atrazine Standard | | |
| Bioaccumulative potential | Not established. | |
| atrazine (1912-24-9) | | |
| BCF fish 1 | 3 - 4 (Cyprinus carpio) | |
| BCF fish 2 | 3 - 10 (Pisces) | |
| BCF other aquatic organisms 1 | 52 (24 h; Chlorella sp.) | |
| BCF other aquatic organisms 2 | 10 - 83 (Algae) | |
| Log Pow | 2.64 | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | |

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| according to Regulation (EC) No. 453/2010 | | |
|--|--|--|
| acetone (67-64-1) | | |
| BCF fish 1 | 0.69 (Pisces) | |
| BCF other aquatic organisms 1 | 3 | |
| Log Pow | -0.24 (Test data) | |
| Bioaccumulative potential | Not bioaccumulative. | |
| 12.4. Mobility in soil | | |
| atrazine (1912-24-9) | | |
| Ecology - soil | Toxic to flora. Not toxic to bees. | |
| acetone (67-64-1) | | |
| Surface tension | 0.0237 N/m | |
| 12.5. Results of PBT and vPvB assessme | | |
| No additional information available | ent | |
| | | |
| 12.6. Other adverse effects | | |
| Additional information | : Avoid release to the environment | |
| SECTION 13: Disposal consideratio | ne | |
| 13.1. Waste treatment methods | | |
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. | |
| Additional information | Handle empty containers with care because residual vapors are flammable. | |
| Ecology - waste materials | : Avoid release to the environment. | |
| Ecology - waste materials | | |
| SECTION 14: Transport information | | |
| In accordance with ADR / RID / IMDG / IATA / A | ADN | |
| 14.1. UN number | | |
| UN-No. (ADR) | : 1993 | |
| UN-No.(IATA) | : 1993 | |
| 14.2. UN proper shipping name | | |
| Proper Shipping Name (ADR) | : FLAMMABLE LIQUID, N.O.S. | |
| Proper Shipping Name (IATA) | : FLAMMABLE LIQUID, N.O.S. | |
| Proper Shipping Name (IMDG) | : FLAMMABLE LIQUID, N.O.S. | |
| Proper Shipping Name (ADN) | : FLAMMABLE LIQUID, N.O.S. | |
| Transport document description (ADR) | : UN 1993 FLAMMABLE LIQUID, N.O.S. (acetone(67-64-1)), 3, II, (D/E) | |
| 14.3. Packing group | | |
| | | |
| Class (ADR) | : 3 | |
| Classification code (ADR) | : F1 | |
| Class (IATA) | : 3 | |
| Class (IMDG) | : 3 | |
| Class (ADN) | : 3 | |
| Hazard labels (ADR) | : 3 | |
| | | |
| | 3 | |
| Hazard labels (IATA) | : 3 | |
| | | |
| 14.4. Packing group | | |
| Packing group (ADR) | : 11 | |
| Packing group (IATA) | : 11 | |
| 14.5. Environmental hazards | | |
| Other information | : No supplementary information available. | |

Safety Data Sheet

according to Regulation (EC) No. 453/2010

| coording to Regulation (EC) No. 455/2010 | |
|--|------------------|
| 14.6. Special precautions for user | |
| 14.6.1. Overland transport | |
| Hazard identification number (Kemler No.) | : 33 |
| Classification code (ADR) | : F1 |
| Orange plates | 33 1993 |
| Special provision (ADR) | : 274, 601, 640D |
| Transport category (ADR) | : 2 |
| Tunnel restriction code (ADR) | : D/E |
| Limited quantities (ADR) | : 11 |
| Excepted quantities (ADR) | : E2 |
| 14.6.2. Transport by sea No additional information available | |
| 14.6.3. Air transport | |
| CAO packing instructions (IATA) | : 364 |
| CAO max net quantity (IATA) | : 60L |
| PCA packing instructions (IATA) | : 353 |
| PCA Limited quantities (IATA) | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L |
| PCA max net quantity (IATA) | : 5L |
| PCA Excepted quantities (IATA) | : E2 |
| ERG code (IATA) | : 3H |
| 14.6.4. Inland waterway transport | |
| Carriage prohibited (ADN) | : No |

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. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Other information

Regulation (EC) No 1907/2006. : None.

PHV SDS EU

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