

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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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 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	
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
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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
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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 (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
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)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist)Skin corrosion/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 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/l/4h 71.000 mg/l/4h 71.000 mg/l/4h 71.000 mg/l/4h 71.000 mg/l/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 (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
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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.	

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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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