

Safety Data Sheet

according to WHS Regulations

Printing date 27.03.2025

Revision: 27.03.2025

1 Identification

- **Product identifier**
- **Trade name:** Organochloride Pesticide Standard (1X1 mL)
- **Part number:** US-102BN-1
- **Relevant identified uses of the substance or mixture and uses advised against**
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
- **Further information obtainable from:**
Telephone: 1800 802 402
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(61) - 290372994

2 Hazard(s) Identification

- **Classification of the substance or mixture**



flame

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.



health hazard

Reproductive toxicity – Category 1A

H360 May damage fertility or the unborn child.

Specific target organ toxicity (repeated exposure) – Category 2

H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard – Category 1

H304 May be fatal if swallowed and enters airways.



Acute toxicity - oral – Category 4

H302 Harmful if swallowed.

Acute toxicity - dermal – Category 4

H312 Harmful in contact with skin.

Skin corrosion/irritation – Category 2

H315 Causes skin irritation.

Specific target organ toxicity (single exposure) – Category 3

H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
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· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

toluene (30-60 %)
dieldrin (ISO) (<10 %)
endrin (ISO) (<10 %)
n-hexane (30-60 %)

· Hazard statements

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H360 May damage fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe vapours.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P280	Wear protective gloves / protective clothing.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

108-88-3	toluene  Flammable liquids – Category 2, H225;  Reproductive toxicity – Category 1A, H360; Specific target organ toxicity (repeated exposure) – Category 2, H373; Aspiration hazard – Category 1, H304;  Skin corrosion/irritation – Category 2, H315; Specific target organ toxicity (single exposure) – Category 3, H336	30-60%
110-54-3	n-hexane  Flammable liquids – Category 2, H225;  Reproductive toxicity – Category 2, H361; Specific target organ toxicity (repeated exposure) – Category 2, H373; Aspiration hazard – Category 1, H304;  Skin corrosion/irritation – Category 2, H315; Specific target organ toxicity (single exposure) – Category 3, H336	30-60%
50-29-3	DDT (common name not adopted by ISO)  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 1, H372	<10%
58-89-9	γ-HCH or γ-BHC  Acute toxicity - oral – Category 3, H301;  Specific target organ toxicity (repeated exposure) – Category 2, H373;  Acute toxicity - dermal – Category 4, H312; Acute toxicity - inhalation – Category 4, H332; Reproductive toxicity – effects on or via lactation, H362	<10%
60-57-1	dieldrin (ISO)  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 1, H310;  Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 1, H372	<10%
72-20-8	endrin (ISO)  Acute toxicity - oral – Category 1, H300; Acute toxicity - dermal – Category 3, H311	<10%
72-54-8	TDE  Acute toxicity - oral – Category 3, H301;  Carcinogenicity – Category 2, H351;  Acute toxicity - dermal – Category 4, H312	<10%
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene  Carcinogenicity – Category 2, H351;  Acute toxicity - oral – Category 4, H302	<10%
76-44-8	heptachlor (ISO)  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311;  Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 2, H373	<10%

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309-00-2	aldrin (ISO) ⚠️ Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311; ⚠️ Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 1, H372	<10%
319-84-6	alpha-BHC (alpha-HCH) ⚠️ Acute toxicity - oral – Category 3, H301; ⚠️ Acute toxicity - dermal – Category 4, H312	<10%
319-85-7	(1alpha,2β,3alpha,4β,5alpha,6β)-1,2,3,4,5,6-hexachlorocyclohexane ⚠️ Carcinogenicity – Category 2, H351; ⚠️ Acute toxicity - dermal – Category 4, H312	<10%
319-86-8	delta-BHC (delta-HCH) ⚠️ Acute toxicity - oral – Category 3, H301; ⚠️ Acute toxicity - dermal – Category 4, H312	<10%
959-98-8	endosulfan I ⚠️ Acute toxicity - oral – Category 3, H301	<10%
1024-57-3	heptachlor epoxide - isomer B ⚠️ Acute toxicity - oral – Category 3, H301; ⚠️ Carcinogenicity – Category 2, H351; Specific target organ toxicity (repeated exposure) – Category 2, H373	<10%
1031-07-8	endosulfan sulfate ⚠️ Acute toxicity - oral – Category 1, H300	<10%
33213-65-9	endosulfan II ⚠️ Acute toxicity - oral – Category 3, H301	<10%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Call for a doctor immediately.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire Fighting Measures

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

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· **Protective equipment:** Mouth respiratory protective device.

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6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**
108-88-3 toluene

WES Short-term value: 574 mg/m³, 150 ppm

Long-term value: 191 mg/m³, 50 ppm

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110-54-3 n-hexane

WES Long-term value: 72 mg/m³, 20 ppm

· **Additional information:** The lists valid during the making were used as basis.

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- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.

- **Respiratory protection:**

When used as intended with Agilent instruments the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device equipment with appropriate organic or acid gas cartridge.

- **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

- **Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness
 For direct contact with the chemical: butyl rubber, 12-15 mil thickness

- **Penetration time of glove material**

For normal use: nitrile rubber: 1 hour
 For direct contact with the chemical: butyl rubber: > 4 hours

- **Eye protection:**



Tightly sealed goggles

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9 Physical and Chemical Properties

- **General Information**

- **Appearance:**

- **Form:**

Fluid

- **Colour:**

According to product specification

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

- **Melting point/freezing point:**

Undetermined.

- **Initial boiling point and boiling range:**

69 °C

- **Flash point:**

-22 °C

- **Flammability (solid, gas):**

Highly flammable.

- **Auto-ignition temperature:**

240 °C

- **Decomposition temperature:**

Not determined.

- **Ignition temperature:**

Product is not selfigniting.

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· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
· Lower:	1.2 Vol %
· Upper:	7.4 Vol %
· Vapour pressure at 20 °C:	110 hPa
· Vapour pressure at 50 °C:	540 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	96.1 %
· VOC (EC)	96.07 %
· Solids content:	4.2 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.
Harmful in contact with skin.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	647 mg/kg
Dermal	LD50	1,956 mg/kg

108-88-3 toluene

Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/L (mouse)

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		28.1 mg/L (rat)
110-54-3 n-hexane		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	3,000 mg/kg (rabbit)
50-29-3 DDT (common name not adopted by ISO)		
Oral	LD50	87 mg/kg (rat)
Dermal	LD50	2,510 mg/kg (rat)
		300 mg/kg (rabbit)
58-89-9 γ-HCH or γ-BHC		
Oral	LD50	88 mg/kg (rat)
Dermal	LD50	900 mg/kg (rat)
Inhalative	LC50/4 h	1,560 mg/L (rat)
60-57-1 dieldrin (ISO)		
Oral	LD50	38 mg/kg (mouse)
		38 mg/kg (rat)
Dermal	LD50	10 mg/kg (rat)
		250 mg/kg (rabbit)
72-20-8 endrin (ISO)		
Oral	LD50	3 mg/kg (rat)
Dermal	LD50	60 mg/kg (rat)
		60 mg/kg (rabbit)
72-54-8 TDE		
Dermal	LD50	1,200 mg/kg (rabbit)
72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene		
Oral	LD50	880 mg/kg (rat)
76-44-8 heptachlor (ISO)		
Oral	LD50	40 mg/kg (rat)
Dermal	LD50	119 mg/kg (rat)
309-00-2 aldrin (ISO)		
Oral	LD50	39 mg/kg (rat)
Dermal	LD50	98 mg/kg (rat)
		15 mg/kg (rabbit)
319-84-6 alpha-BHC (alpha-HCH)		
Oral	LD50	177 mg/kg (rat)
319-85-7 (1alpha,2beta,3alpha,4beta,5alpha,6beta)-1,2,3,4,5,6-hexachlorocyclohexane		
Oral	LD50	6,000 mg/kg (rat)
319-86-8 delta-BHC (delta-HCH)		
Oral	LD50	1,000 mg/kg (rat)
959-98-8 endosulfan I		
Oral	LD50	76 mg/kg (rat)

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1024-57-3 heptachlor epoxide - isomer B

Oral	LD50	15 mg/kg (rat)
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1031-07-8 endosulfan sulfate

Oral	LD50	18 mg/kg (rat)
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33213-65-9 endosulfan II

Oral	LD50	240 mg/kg (rat)
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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage fertility or the unborn child.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Not Regulated, De minimus Quantities**

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· UN-Number	UN1993
· ADG, IMDG, IATA	
· UN proper shipping name	1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS
· ADG	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), MARINE POLLUTANT
· IMDG	FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE)
· IATA	
· Transport hazard class(es)	
· ADG, IMDG	
	 
· Class	3 Flammable liquids.
· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· Packing group	
· ADG, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: dieldrin (ISO), n-hexane
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADG):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E

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· IMDG	1L
· Limited quantities (LQ)	Code: E2
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

108-88-3 toluene

110-54-3 n-hexane

· **Standard for the Uniform Scheduling of Medicines and Poisons**

108-88-3	toluene	S6
50-29-3	DDT (common name not adopted by ISO)	S10
58-89-9	γ -HCH or γ -BHC	S2, S4, S5, S6
60-57-1	dieldrin (ISO)	S6
72-20-8	endrin (ISO)	S7
72-54-8	TDE	S5, S6
76-44-8	heptachlor (ISO)	S6
309-00-2	aldrin (ISO)	S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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H304 May be fatal if swallowed and enters airways.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H361 Suspected of damaging fertility or the unborn child.
H362 May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing SDS:** Document Control / Regulatory

· **Contact:** pdl-acg-regulatory-cq@agilent.com

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flammable liquids – Category 2: Flammable liquids – Category 2

Acute toxicity - oral – Category 3: Acute toxicity – Category 3

Acute toxicity - dermal – Category 1: Acute toxicity – Category 1

Acute toxicity - dermal – Category 4: Acute toxicity – Category 4

Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2

Carcinogenicity – Category 2: Carcinogenicity – Category 2

Reproductive toxicity – effects on or via lactation: Reproductive toxicity – effects on or via lactation

Reproductive toxicity – Category 1A: Reproductive toxicity – Category 1A

Reproductive toxicity – Category 2: Reproductive toxicity – Category 2

Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

Specific target organ toxicity (repeated exposure) – Category 1: Specific target organ toxicity (repeated exposure) – Category 1

Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration hazard – Category 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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