

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** C-968
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Reproductive toxicity 2

H361 Suspected of damaging fertility or the unborn child.



GHS07

Acute toxicity - dermal 4

H312 Harmful in contact with skin.

Acute toxicity - inhalation 4

H332 Harmful if inhaled.

Eye irritation 2A

H319 Causes serious eye irritation.

Sensitization - skin 1

H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**
acetonitrile
Bifenthrin (ISO)

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Pyrethrins and Pyrethroids
 ethoprophos (ISO)
 quitozene (ISO)
 captan (ISO)
 permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
 metalaxyl (ISO)
 trifloxystrobin (ISO)

· Hazard statements

Harmful in contact with skin or if inhaled.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 If on skin: Wash with plenty of water.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If exposed or concerned: Get medical advice/attention.
 Call a poison center/doctor if you feel unwell.
 Specific treatment (see on this label).
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Information pertaining to particular dangers for man and environment:

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

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· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

75-05-8	acetonitrile	80–100%
57-74-9	chlordan (ISO)	≤0.1%
82-68-8	quintozene (ISO)	≤0.1%
133-06-2	captan (ISO)	≤0.1%
8003-34-7	Pyrethrins and Pyrethroids	≤0.1%
13194-48-4	ethoprophos (ISO)	≤0.1%
52645-53-1	permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	≤0.1%
57837-19-1	metalaxyl (ISO)	≤0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	≤0.1%
82657-04-3	Bifenthrin (ISO)	≤0.1%
141517-21-7	trifloxystrobin (ISO)	≤0.1%

· **Non-hazardous components**

51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	≤0.1%
114-26-1	propoxur (ISO)	≤0.1%
2921-88-2	chlorpyrifos (ISO)	≤0.1%
7786-34-7	mevinphos (ISO)	≤0.1%
52315-07-8	zeta cypermethrin	≤0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	≤0.1%

4 First-aid measures

· **Description of 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:**

Supply fresh air and to be sure call for a doctor.

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. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult 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.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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.
- **Protective Action Criteria for Chemicals**

· PAC-1:

75-05-8	acetonitrile	13 ppm
51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonylether	6.5 mg/m ³
57-74-9	chlordane (ISO)	1.5 mg/m ³
82-68-8	quintozone (ISO)	1.5 mg/m ³
114-26-1	propoxur (ISO)	1.5 mg/m ³
133-06-2	captan (ISO)	15 mg/m ³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m ³
7786-34-7	mevinphos (ISO)	0.030 ppm
13194-48-4	ethoprophos (ISO)	0.082 mg/m ³

· PAC-2:

75-05-8	acetonitrile	50 ppm
51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonylether	72 mg/m ³
57-74-9	chlordane (ISO)	50 mg/m ³
82-68-8	quintozone (ISO)	28 mg/m ³
114-26-1	propoxur (ISO)	2.5 mg/m ³
133-06-2	captan (ISO)	26 mg/m ³
2921-88-2	chlorpyrifos (ISO)	1.5 mg/m ³
7786-34-7	mevinphos (ISO)	0.44 ppm
13194-48-4	ethoprophos (ISO)	0.90 mg/m ³

· PAC-3:

75-05-8	acetonitrile	150 ppm
51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonylether	1,200 mg/m ³
57-74-9	chlordane (ISO)	500 mg/m ³
82-68-8	quintozone (ISO)	62 mg/m ³
114-26-1	propoxur (ISO)	15 mg/m ³
133-06-2	captan (ISO)	160 mg/m ³
2921-88-2	chlorpyrifos (ISO)	8.8 mg/m ³

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7786-34-7	mevinphos (ISO)	4.0 ppm
13194-48-4	ethoprophos (ISO)	5.4 mg/m ³

· **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

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

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

· **Further information about storage conditions:** Keep receptacle tightly sealed.

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

* 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-05-8 acetonitrile	
PEL	Long-term value: 70 mg/m ³ , 40 ppm
REL	Long-term value: 34 mg/m ³ , 20 ppm
TLV	Long-term value: 33 mg/m ³ , 20 ppm
	Skin, A4
82-68-8 quintozone (ISO)	
TLV	Long-term value: 0.5 mg/m ³
	A4
133-06-2 captan (ISO)	
REL	Long-term value: 5 mg/m ³
	See Pocket Guide App. A
TLV	Long-term value: 5* mg/m ³
	DSEN; *as inhalable fraction, A3

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

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **Melting point/Melting range:**

-46 °C (-50.8 °F)

· **Boiling point/Boiling range:**

Undetermined.

· **Flammability:**

Not applicable.

· **Explosion limits:**

· **Lower:**

4.4 Vol %

· **Upper:**

16 Vol %

· **Flash point:**

Not applicable.

· **Auto igniting:**

525 °C (977 °F)

· **Decomposition temperature:**

Not determined.

· **pH-value:**

Not determined.

· **Viscosity:**

· **Kinematic:**

Not determined.

· **Dynamic:**

Not determined.

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· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	330 hPa (247.5 mm Hg)
· Density at 20 °C (68 °F):	0.7822 g/cm ³ (6.52746 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	0.2 %
· VOC content:	0.20 %
	2.0 g/l / 0.02 lb/gal
· Solids content:	99.9 %
· Change in condition	
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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:**

· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Oral	LD50	2,774 mg/kg (rat)
Dermal	LD50	1,270 mg/kg (rabbit)
Inhalative	LC50/4 h	11.2 mg/l
75-05-8 acetonitrile		
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)

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57-74-9 chlordane (ISO)		
Oral	LD50	460 mg/kg (rat)
Dermal	LD50	700 mg/kg (rat)
13194-48-4 ethoprophos (ISO)		
Oral	LD50	62 mg/kg (rat)
Dermal	LD50	26 mg/kg (rat)
68359-37-5 alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate		
Oral	LD50	14 mg/kg (ATE)
Inhalative	LC50/4 h	0.14 mg/l (ATE)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	3
57-74-9	chlordane (ISO)	2B
82-68-8	quintozone (ISO)	3
133-06-2	captan (ISO)	3
52645-53-1	permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information** No non-standard sources for toxicological information were used.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

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

14 Transport information

· UN-Number · DOT · IMDG, IATA	not regulated UN3082
· UN proper shipping name · DOT · IMDG · IATA	not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ethoprophos (ISO), mevinphos (ISO)), MARINE POLLUTANT Environmentally hazardous substance, liquid, n.o.s. (ethoprophos (ISO), mevinphos (ISO))
· Transport hazard class(es) · DOT · Class	not regulated
· IMDG, IATA	
 	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
· Packing group · DOT · IMDG, IATA	not regulated III
· Environmental hazards: · Marine pollutant: · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Hazard identification number (Kemler code): 90	
· EMS Number:	F-A, S-F
· Stowage Category	A
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHOPROPHOS (ISO), MEVINPHOS (ISO)), 9, III

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Sara**

· Section 355 (extremely hazardous substances):	
57-74-9	chlordan (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)

· Section 313 (Specific toxic chemical listings):	
75-05-8	acetonitrile
51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonylether
57-74-9	chlordan (ISO)
82-68-8	quintozene (ISO)
114-26-1	propoxur (ISO)
133-06-2	captan (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
82657-04-3	Bifenthrin (ISO)

· TSCA (Toxic Substances Control Act):		
75-05-8	acetonitrile	ACTIVE
51-03-6	2-(2-butoxyethoxy)ethyl 6-propylpiperonylether	ACTIVE
82-68-8	quintozene (ISO)	ACTIVE
133-06-2	captan (ISO)	ACTIVE

· Hazardous Air Pollutants	
75-05-8	acetonitrile
57-74-9	chlordan (ISO)
82-68-8	quintozene (ISO)
114-26-1	propoxur (ISO)
133-06-2	captan (ISO)

· Proposition 65

· Chemicals known to cause cancer:	
57-74-9	chlordan (ISO)
114-26-1	propoxur (ISO)
133-06-2	captan (ISO)

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13194-48-4	ethoprophos (ISO)	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
2921-88-2	chlorpyrifos (ISO)	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
75-05-8	acetonitrile	CBD, D
57-74-9	chlordan (ISO)	B2
· TLV (Threshold Limit Value)		
75-05-8	acetonitrile	A4
57-74-9	chlordan (ISO)	A3
82-68-8	quintozene (ISO)	A4
114-26-1	propoxur (ISO)	A3
133-06-2	captan (ISO)	A3
2921-88-2	chlorpyrifos (ISO)	A4
7786-34-7	mevinphos (ISO)	A4
8003-34-7	Pyrethrins and Pyrethroids	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
57-74-9	chlordan (ISO)	
133-06-2	captan (ISO)	

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

GHS07 GHS08

· **Signal word** Warning· **Hazard-determining components of labeling:**

acetonitrile

Bifenthrin (ISO)

Pyrethrins and Pyrethroids

ethoprophos (ISO)

quintozene (ISO)

captan (ISO)

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

metalaxyl (ISO)

trifloxystrobin (ISO)

· **Hazard statements**

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

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Suspected of damaging fertility or the unborn child.

• **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If on skin: Wash with plenty of water.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Department issuing SDS:** Environment protection department.

• **Contact:** - Department Technical Manager

• **Date of previous version** 04/17/2025

• **Date of preparation** 06/30/2026

• **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

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - dermal 4: Acute toxicity – Category 4

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Reproductive toxicity 2: Reproductive toxicity – Category 2

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