



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- · Product Code: TEB0104 Black Product Name: Teachables Permanent Marker Bullet Assorted PK12
- · Article number: 100000001134
- · Registration number
- The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- \cdot 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Currently no such applications are identified
- · Application of the substance / the mixture alcohol based permanent marking ink
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Modern Teaching Aids

Level 1, 122-126 Old Pittwater Rd, Brookvale, NSW PO Box 6367, Frenchs Forest, NSW 2086, Australia

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SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- \cdot Classification according to Regulation (EC) No 1272/2008



GHS02 flame

H225 Highly flammable liquid and vapour. Flam. Liq. 2



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms











· Signal word Danger

· Hazard-determining components of labelling:

 ${\it Phosphoric acid mono-bis-(2-ethylhexyl)-ester}$

C. I. Solvent Orange 3
C. I. Solvent Violet 8

C. I. Solvent Blue 4 < 0,1% Michler's Ketone

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

 ${\it H317}$ May cause an allergic skin reaction. ${\it H341}$ Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

· 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.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Mixture of the following substances, containing non-hazardous substances and colouring agents.

Description:

All ingredients of the ink MA 2010 black are pre-registered according to 1907/2006/EC (REACH). For pre-registration numbers refer to the list attached to his MSDS.

· Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6	ethanol ♠ Flam. Liq. 2, H225; ♠ Eye Irrit. 2, H319	50-100%
CAS: 107-98-2 EINECS: 203-539-1	1-Methoxy-2-propanol → Flam. Liq. 3, H226; → STOT SE 3, H336	2,5-10%
CAS: 12645-31-7 EINECS: 235-741-0	Phosphoric acid mono-bis-(2-ethylhexyl)-ester → Skin Corr. 1B, H314	2,5-10%
CAS: 84281-86-7 EINECS: 282-630-8	C. I. Solvent Violet 8 Eye Dam. 1, H318; Acute Tox. 4, H302	2,5-10%
CAS: 495-54-5 EINECS: 207-803-7	C. I. Solvent Orange 3 Muta. 2, H341; Carc. 2, H351; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	2,5-10%
CAS: 6786-83-0 EINECS: 229-851-8	C. I. Solvent Blue 4 < 0,1% Michler's Ketone Skin Sens. 1B, H317; Aquatic Chronic 3, H412	1,0%

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

SECTION 4: First aid measures

- \cdot 4.1 Description of first aid measures
- · 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. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

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 \cdot 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

 \cdot 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

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

- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Wear protective clothing.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 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 item 13.

Ensure adequate ventilation.

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

- \cdot 7.2 Conditions for safe storage, including any incompatibilities
- · 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.

Protect from heat and direct sunlight.

 \cdot 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- \cdot Ingredients with limit values that require monitoring at the workplace:

107-98-2 1-Methoxy-2-propanol (2,5-10%)

IOELV Short-term value: 568 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Skin

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · 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.

Avoid contact with the skin.

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Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· 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

Solubility in / Miscibility with

· Partition coefficient (n-octanol/water):

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

· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

Appearance:		
Form:	Fluid	
Colour:	According to product specification	
Odour:	Product specific	
Odour threshold:	Not determined.	
Important information on protection of	health and	
environment, and on safety.	-	
	-	
pH-value at 20 °C:	5	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	78 °C	
Flash point:	13 °C	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	287 °C	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
Explosion limits:		
Lower:	1,7 Vol %	
Upper:	15,0 Vol %	
Vapour pressure at 20 °C:	59 hPa	
Density:	Not determined.	
Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	

Fully miscible.

Not determined.

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· Viscosity: Dynamic at 20 °C:	4,2 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	76,2 %
Solids content:	14,7 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- Sensitisation: Sensitisation possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General ${\it EU}$ Classification Guidelines for Preparations as issued in the latest version: Irritant

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Muta. 2, Carc. 2

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

6786-83-0 C. I. Solvent Blue 4 < 0,1% Michler's Ketone

EC50 / 48h 0,025 mg/l (Daphnie)

- · 12.2 Persistence and degradability No further relevant information available.
- \cdot 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- \cdot 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue			
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
08 01 00	wastes from MFSU and removal of paint and varnish		
08 01 11* waste paint and varnish containing organic solvents or other dangerous substances			
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- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
14.1 UN-Number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	1263 PAINT, MARINE POLLUTANT/ENVIRONMENTALLY
	HAZARDOUS
IMDG	PAINT (chrysoidine, triarylmethan dye, blue), MARINE POLLUTANT
IATA	PAINT
14.3 Transport hazard class(es)	
ADR	
₹ 2	
Class	3 (F1) Flammable liquids.
Label	3
Class	3 Flammable liquids.
Label	3
IATA	
	3 Flammable liquids.
Label	3 Flammable liquids. 3
Label 14.4 Packing group	
Label 14.4 Packing group ADR, IMDG, IATA	II Product contains environmentally hazardous
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards:	II Product contains environmentally hazardous substances: chrysoidine
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards:	II Product contains environmentally hazardous
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant:	II Product contains environmentally hazardous substances: chrysoidine Yes
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree)
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler):	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids.
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex I: MARPOL73/78 and the IBC Code Transport/Additional information:	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ)	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ)	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2 Maximum net quantity per inner packaging: 30 ml
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex I: MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ)	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex I: MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ)	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2 Maximum net quantity per inner packaging: 30 ml
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 14.7 Transport in bulk according to Annex I: MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2
Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ)	II Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Flammable liquids. 33 F-E,S-E I of Not applicable. 5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E

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1263 Paint (dye-stuff C.I. Solvent Orange 3), Marine Pollutant · UN "Model Regulation": UN1263, PAINT, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS, 3, II

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

- · Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

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· Relevant phrases
  H225 Highly flammable liquid and vapour.
  H226 Flammable liquid and vapour.
  H302 Harmful if swallowed.
  H314 Causes severe skin burns and eye damage.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H318 Causes serious eye damage.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.
  H341 Suspected of causing genetic defects.
  H351 Suspected of causing cancer.
  H410 Very toxic to aquatic life with long lasting effects.
  H412 Harmful to aquatic life with long lasting effects.
  Abbreviations and acronyms:
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DCR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
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IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) CAS: Chemical Abstracts Service (division of the American Chemical Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Muta. 2: Germ cell mutagenicity. Hazard Category 1B
Muta. 2: Germ cell mutagenicity. Hazard Category 1 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.