

SAFETY DATA SHEETS

This SDS packet was issued with item:

070171793

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070171819 070174466 070174482

MSDS⁽²⁾
MATERIAL SAFETY DATA SHEET

PRODUCERS
SUPPLIERS
WAREHOUSERS

X

Ball Pen Ink

0239 PG3 black

QUICK IDENTIFIER⁽²⁾

SECTION I - GENERAL INFORMATION

MANUFACTURER NAME: Dokumental GmbH & Co. KG Schreibfarben

Factory Ludwigshafen

Woellnerstraße 26, D-67065 Ludwigshafen

Telephone: +49-621-5402-322

Telefax : +49-621-5402-422 (or -394)

e-mail : b.polzin@dokumental.de

Factory Mittenwald

Innsbrucker Str. 35, D-82481 Mittenwald

Telephone: +49-8823-9202-0

Telefax : +49-8823-3820

Date: 02.06.03

Prepared by Dr. Polzin (Factory Ludwigshafen)

SECTION II - HAZARDOUS INGREDIENTS⁽³⁾

(Specify components)

CAS-no.	substance	conc. range %	classification ⁽⁴⁾ (European Union)
100-51-6	benzyl alcohol	10 - 25	Xn 20/22
000122-99-6	2-Phenoxyethanol	25 - 50	Xn 22-36

Transport Info: UN-No.: n.a. Prop. Shipping Name: No Dangerous Goods

IMDG-CODE Class: n.a.

MFAG: n.a.

EMS No.: n.a.

ICAO/IATA Class: n.a.

Packaging Group: n.a.

SECTION III PHYS./CHEM. CHARACTERISTICS (SPECIFY COMPONENT)

Appearance: liquid

Odor: typical

Boiling Point (°C): 100	Density (g/ml):	1.12 +/-
Vapor Density (Air = 1): > 1	Melting Point (°C):	< 0
Solubility in Water: insoluble	Evaporation Rate (Butylacetate= 1)	> 1
Pressurized: yes	no	X
% Volatile ⁽⁴⁾		49

Other Characteristics: mixture of polyhydric alcohols, dye

stuffs, resin, and additives

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flashp. °C (Method used): > 100

Explosion Limits (Vol%)

LEL 1.3

UEL 13.

Extinguishing Media: alcohol resistant foam, CO₂, powders, water spray

SECTION VII - SPECIAL PRECAUTIONS

Special Precautions to be Taken in Handling: keep containers tightly closed.

protect drums from the influence of weather.

Other Precautions: product should not get untreated into waters

Steps to be Taken in Case Material is Released or Spilled: absorb with appropriate liquid binding material and dispose of according to local regulations

Waste Disposal Methods: burn in a licensed incinerator, treat in a biological clarification plant; product may not get untreated into waters

SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection: not necessary, good room ventilation is sufficient

Ventilation: Local Exhaust: Mechanical: not necessary Other:

Skin and Eye Protection: rubber or plastic gloves, protective glasses

Work/Hygenic Practices: pay attention to the usual rules for handling chemicals

Note: The information given in this MSDS is based on our present state of knowledge and is no assurance of properties of our products. Existing laws and regulations have to be obeyed by the purchaser himself. The product shall not be used for purposes other than it is assigned for without the consent of the producer.

Important: (1) Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate as follows: n.a. = not applicable
n.d. = not determined
n.n. = not necessary

(2) Product type and common name (used on label and list).

(3) Cited in any national regulations on the classification, packaging and labelling of dangerous substances, preparations, paints, varnishes, printing inks, and similar similar product.

(4) Part of the mixture which evaporates.

(5) LD₅₀ shall be noted if known

(6) Health hazard by ingestion and inhalation shall be noted if known.

(7) Calculated from the components

(8) T - toxic
Xn - harmful if swallowed
Xi - irritant
C - corrosive
F - flammable

Page 2/3 Ball Pen Ink
0239 PG3 black,

Special Fire Fighting Precautions: cool containers exposed to fire with water

do not use waterjet

Autoignition temperature (°C): 200

List of Hazardous Decomp. Products: carbon monoxide and dioxide, smoke, and oxides
of nitrogene

Other Advice: none

SECTION V - STORAGE HAZARDS

Stability: Unstable: ☐ Stable: ☒ Conditions to Avoid: avoid heating above 60°C

Incompatibility (Material to avoid): concentrated oxidizing or reducing agents

Hazardous Decomposition Products: no hazardous decomposition products known

Hazardous Polymerisation May Occur ☐

Will Not Occur ☒

Conditions To Avoid: none

SECTION VI - HEALTH HAZARDS

Signs and Symptoms of Overexposure(6): not known

Medical Cond. Generally Aggravated: n.d.

Chem. Listed as Carcinogenes: none of the used chemicals are known to be carcinogenes

Emergency and First Aid Procedures

Routes of Entry	First Aid Procedures	Seek Medical Advice
Inhalation	remove for fresh air, keep patient warm an at rest; if breathing is irregular or stopped, administer artificial respiration If unconscious place in recovery position and seek for medical advice	<input type="checkbox"/>
Eyes	rinse with plenty of clean and fresh water in case of remaining irritation seek for medical advice	<input checked="" type="checkbox"/>
Skin	remove moistened clothing, wash with soap and water, do not use solvents or thinners !!	<input type="checkbox"/>
Ingestion	if accidentally swallowed obtain immediate medical attention. Keep at rest Do not induce vomating	<input checked="" type="checkbox"/>

1 Identification

- **Product identifier**
- **Trade name:** 0239 PG3 black
- **Article number:** 100000000570
- **Relevant identified uses of the substance or mixture and uses advised against**
Currently no such applications are identified.
- **Application of the substance / the mixture** Ball Pen Ink
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
DOKUMENTAL GmbH & Co KG
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49 (0)621/37702 321
Fax + 49 (0)621/37702 391
www.dokumental.de
- **Information department:**
Technical Service & Product Safety
Tel.: +49-621-37702 322
E-Mail: msds@dokumental.de
- **Emergency telephone number:**
24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05



GHS07



GHS09

- **Signal word** Danger

- **Hazard-determining components of labeling:**

C.I. Solvent Black 46

Phosphoric acid mono-bis-(2-ethylhexyl)-ester

- **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**

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.

Avoid release to the environment.

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US

Trade name: 0239 PG3 black

(Contd. of page 1)

Wear protective gloves / eye protection / face 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.
Immediately call a poison center/doctor.
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.
Wash contaminated clothing before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 1
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 1
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

122-99-6	2-Phenoxyethanol	25-50%
65113-55-5	C.I. Solvent Black 46	25-50%
100-51-6	Benzyl alcohol	10-25%
12645-31-7	Phosphoric acid mono-bis-(2-ethylhexyl)-ester	≤1%

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

4 First-aid measures

- **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:** Immediately wash eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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

- **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:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

(Contd. on page 3)

US

Trade name: 0239 PG3 black

(Contd. of page 2)

- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
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).
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.
- **Protective Action Criteria for Chemicals**

• **PAC-1:**

122-99-6	2-Phenoxyethanol	1.5 ppm
100-51-6	Benzyl alcohol	30 ppm

• **PAC-2:**

122-99-6	2-Phenoxyethanol	16 ppm
100-51-6	Benzyl alcohol	52 ppm

• **PAC-3:**

122-99-6	2-Phenoxyethanol	97 ppm
100-51-6	Benzyl alcohol	740 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

100-51-6 Benzyl alcohol (10-25%)

WEEL Long-term value: 10 ppm

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

(Contd. on page 4)

US

Trade name: 0239 PG3 black

(Contd. of page 3)

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

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

• **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.

Nitrile rubber, NBR

• **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

9 Physical and chemical properties

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

• **General Information**

• **Appearance:**

Form:

Fluid

Color:

According to product specification

• **Odor:**

Product specific

• **Odor threshold:**

Not determined.

• **Important information on protection of health and environment, and on safety.**

-

• **pH-value at 20 °C (68 °F):**

6.5

• **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

205.4 °C (401.7 °F)

• **Flash point:**

101 °C (213.8 °F)

• **Flammability (solid, gaseous):**

Not applicable.

• **Ignition temperature:**

435 °C (815 °F)

• **Decomposition temperature:**

Not determined.

• **Auto igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Not determined.

• **Explosion limits:**

Lower:

1.3 Vol %

Upper:

13 Vol %

• **Vapor pressure at 20 °C (68 °F):**

0.1 hPa (0.1 mm Hg)

• **Density at 20 °C (68 °F):**

1.1 g/cm³ (9.2 lbs/gal)

• **Relative density**

Not determined.

• **Vapor 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 at 20 °C (68 °F):

16,000 mPas

Kinematic:

Not determined.

• **Solvent content:**

Organic solvents:

44.5 %

Solids content:

51.2 %

• **Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

US
(Contd. on page 5)

Trade name: 0239 PG3 black

(Contd. of page 4)

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:**

122-99-6 2-Phenoxyethanol

Oral LD50 1,840 mg/kg (rat)

- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

65113-55-5 C.I. Solvent Black 46

EC10 40 micro g/L (zebra fish)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (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.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

US

Trade name: 0239 PG3 black

(Contd. of page 5)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN3082
- **UN proper shipping name**
- **DOT** Environmentally hazardous substance, liquid, n.o.s. (triarylmethane dye, black)
- **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triarylmethane dye, black)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triarylmethane dye, black), MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triarylmethane dye, black)
- **Transport hazard class(es)**
- **DOT, IMDG, IATA**
- 

- **Class** 9 Miscellaneous dangerous substances and articles
- **Label** 9
- **ADR**
- 

- **Class** 9 (M6) Miscellaneous dangerous substances and articles
- **Label** 9
- **Packing group**
- **DOT, ADR, IMDG, IATA** III
- **Environmental hazards:** Product contains environmentally hazardous substances: triarylmethane dye, black
- **Marine pollutant:** Yes
- **Special marking (ADR):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user** Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F
- **Stowage Category** A
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT**
- **Quantity limitations** On passenger aircraft/rail: No limit
On cargo aircraft only: No limit
- **Remarks:** Special marking with the symbol (fish and tree).
- **ADR**
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **IMDG**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIARYLMETHANE DYE, BLACK), 9, III

US
(Contd. on page 7)

Trade name: 0239 PG3 black

(Contd. of page 6)

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

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:

None of the ingredients is listed.

DSL/NDL (Canada) All ingredients are listed

Carcinogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05



GHS07



GHS09

Signal word Danger

Hazard-determining components of labeling:

C.I. Solvent Black 46

Phosphoric acid mono-bis-(2-ethylhexyl)-ester

Hazard statements

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

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.

Avoid release to the environment.

Wear protective gloves / eye protection / face 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.

Immediately call a poison center/doctor.

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.

Wash contaminated clothing before reuse.

Collect spillage.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

(Contd. on page 8)

Trade name: 0239 PG3 black

(Contd. of page 7)

- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	25-50

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **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.

- **Date of preparation / last revision** 06/14/2019 / 27

- **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)
ICAO: International Civil Aviation Organisation
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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
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
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Dam. 1: Serious eye damage/eye irritation - Category 1
Skin Sens. 1: Skin sensitisation - Category 1
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

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

— US —