

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/29/2016

Reviewed on 08/29/2016

### 1 Identification

**Product Identifier****Trade name: Precision Calibration Gas Mixture****Product Number:** G-1515**Relevant identified uses of the substance or mixture and uses advised against:**

Used for calibration of gas measuring devices. Not suitable for human consumption.

**Product Description** Calibration gas mixture consisting of Carbon Monoxide, Hydrogen Sulfide and Nitrogen.**Application of the substance / the mixture:** Pressurized gas, requires appropriate regulator to dispense.**Details of the Supplier of the Safety Data Sheet:****Manufacturer/Supplier:**

Gasco Affiliates, LLC

320 Scarlett Blvd.

Oldsmar, FL 34677

TELEPHONE NUMBER: (800) 910-0051

FAX NUMBER: (866) 755-8920

E-MAIL: info@gascogas.com

**Emergency telephone number:**

Inside the US: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside the US: 1-703-527-3887 (CHEMTREC, 24 hours)

### 2 Hazard(s) Identification

**Classification of the substance or mixture:**

GHS02 Flame

Flam. Gas 1      H220 Extremely flammable gas.



GHS04 Gas cylinder

Press. Gas      H280 Contains gas under pressure; may explode if heated.



GHS06 Skull and crossbones

Acute Tox. 2      H330 Fatal if inhaled.



GHS08 Health hazard

Repr. 1      H360 May damage fertility or the unborn child.

STOT RE 1      H372 Causes damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1A      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.

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Aquatic Acute 2 H401 Toxic to aquatic life.  
 Simple Asphyxiant May displace oxygen and cause rapid suffocation.

**Label elements:****GHS label elements**

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

**Hazard pictograms:**

GHS02 GHS04 GHS05 GHS06 GHS08

**Signal word:** Danger

**Hazard-determining components of labeling:**

Hydrogen Sulfide  
 Carbon Monoxide

**Hazard statements:**

H220 Extremely flammable gas.  
 H280 Contains gas under pressure; may explode if heated.  
 H330 Fatal if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H360 May damage fertility or the unborn child.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H401 Toxic to aquatic life.  
 May displace oxygen and cause rapid suffocation.

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P260 Do not breathe dusts or mists.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear eye protection / face protection.  
 P273 Avoid release to the environment.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P303+P361+P353 If on skin (or hair): 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.  
 P320 Specific treatment is urgent (see supplementary first aid instructions on this Safety Data Sheet).  
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P363 Wash contaminated clothing before reuse.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
 P314 Get medical advice/attention if you feel unwell.  
 P381 Eliminate all ignition sources if safe to do so.

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P405 Store locked up.  
 P410+P403 Protect from sunlight. Store in a well-ventilated place.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**  
 95 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

### \* 3 Composition/Information on Ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

|                                     |   |               |
|-------------------------------------|---|---------------|
| CAS: 7727-37-9<br>RTECS: QW 9700000 | Nitrogen<br>⚠ Press. Gas, H280; Simple Asphyxiant   | 90- 95.99995% |
| CAS: 7783-06-4                      | Hydrogen Sulfide<br>⚠ Flam. Gas 1, H220; ⚠ Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400; Press. Gas, H280          | 4 - 5%        |
| CAS: 630-08-0<br>RTECS: FG 3500000  | Carbon Monoxide<br>⚠ Flam. Gas 1, H220; ⚠ Acute Tox. 3, H331; ⚠ Repr. 1A, H360; STOT RE 1, H372; Press. Gas, H280 | 0.00005 - 5%  |

### 4 First-Aid Measures

· **Description of first aid measures:**

· **General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· **After inhalation:**

Get medical attention immediately. Move person to fresh air. If it is expected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

In cases of contact with liquified material, frostbite may occur. Immerse frostbite in cool-warm water and seek medical attention.

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· **After eye contact:**

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

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- **After swallowing:**  
Not a normal route of entry.  
If swallowed and symptoms occur, consult a 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 water spray to cool fire-exposed containers.
- **Special hazards arising from the substance or mixture:**  
Closed containers may explode when exposed to extreme heat.  
If incinerated, product will release the following toxic fumes: Oxides of Carbon, Nitrogen (NOx) and Sulfur.
- **Advice for firefighters:**  
This gas mixture is not flammable; however, container, when involved in fire, may rupture or burst in the heat of the fire. Firefighters should be aware of the presence of Hydrogen Sulfide in the gas mixture, which can cause significant health effects.  
This gas mixture is flammable; and, containers, when involved in fire, may rupture in the heat of the fire. Firefighters should be aware of the presence of Hydrogen Sulfide in this gas mixture, which can cause significant health effects.
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**  
In a confined area, NIOSH approved respiratory protection may be required.  
Treat any fumes as toxic.  
Ensure adequate ventilation.  
Keep people at a distance and stay upwind.
- **Environmental precautions:** Inform authorities in case of gas release.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Dispose of the collected material according to regulations.
- **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.  
Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms due to the potential for oxygen deficiency (simple asphyxiation). Do not attempt to adjust, repair or in any other way modify the cylinders containing this gas mixture. If there is a malfunction or another type of operational problem, contact nearest distributor immediately.

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· **Information about protection against explosions and fires:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not cut, grind or weld on container that contains or contained product.

Do not spray on a naked flame or any incandescent material.

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

Store away from strong oxidizing agents, strong bases, phosphorous, organic materials, powdered metals and Zinc.

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Cylinders should be firmly secured to prevent falling or being knocked over. Cylinders must be protected from the environment, and preferably kept at room temperature. Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage. Full and empty cylinders should be segregated. Use a "first-in, first-out" inventory system to prevent full containers from being stored for long periods of time.

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

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **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 section 7.

· **Control parameters:**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· **Components with occupational exposure limits:**

**7727-37-9 Nitrogen**

TLV | withdrawn TLV, see App. F; simple asphyxiant

**630-08-0 Carbon Monoxide**

PEL | Long-term value: 55 mg/m<sup>3</sup>, 50 ppm

REL | Long-term value: 40 mg/m<sup>3</sup>, 35 ppm  
Ceiling limit value: 229 mg/m<sup>3</sup>, 200 ppm

TLV | Long-term value: 29 mg/m<sup>3</sup>, 25 ppm  
BEI

**7783-06-4 Hydrogen Sulfide**

PEL | Ceiling limit value: 20; 50\* ppm  
\*10-min peak; once per 8-hr shift

REL | Ceiling limit value: 15\* mg/m<sup>3</sup>, 10\* ppm  
\*10-min

TLV | Short-term value: 7 mg/m<sup>3</sup>, 5 ppm  
Long-term value: 1.4 mg/m<sup>3</sup>, 1 ppm

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

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- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**



Suitable respiratory protective device recommended.

- **Protection of hands:**



Protective gloves

Select glove material based on penetration times, rates of diffusion and degradation.

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

- **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 cannot 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 determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:**



Protective work clothing

## 9 Physical and Chemical Properties

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

- **General Information**

- **Appearance:**

**Form:**

Gaseous

**Color:**

Clear, colorless

- **Odor:**

Mild

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

**Melting point/Melting range:**

Not determined.

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- **Boiling point/Boiling range:** Not determined.
- **Flash point:** None
- **Flammability (solid, gaseous):** Flammable.
- **Ignition temperature:**
  - **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Vapor pressure:** Not determined.
- **Density:**
  - **Relative density:** Not determined.
  - **Vapor density:** Not determined.
  - **Evaporation rate:** Not applicable.
- **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:** 0.0 %
- **Other information:** No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** Stable under normal conditions.
- **Chemical stability:** Stable under normal conditions.
- **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:** Strong oxidizing agents, strong bases, phosphorous, organic materials, powdered metals and Zinc.
- **Hazardous decomposition products:** Oxides of Carbon, Nitrogen (NOx) and Sulfur.

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

|   |          |                  |
|---|----------|------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |          |                  |
| <b>630-08-0 Carbon Monoxide</b>                               |          |                  |
| Inhalative  | LC50/4 h | 7520 mg/l (rat)  |
| <b>7783-06-4 Hydrogen Sulfide</b>                             |          |                  |
| Inhalative  | LC50/4 h | 634 mg/l (mouse) |

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### Trade name: Precision Calibration Gas Mixture

|  |               |                         |
|--|---------------|-------------------------|
|  |               | 444 mg/l (rat)          |
|  | LC50/96 hours | 0.016 mg/l (Pimephales) |

- **Primary irritant effect:**

- **On the skin:** No irritating effect.

- **On the eye:** No irritating effect.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

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

None of the ingredients are listed.

### 12 Ecological Information

- **Toxicity:** The hazards for the aquatic environment are unknown.
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **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:**  
Release all residual gas pressure in a well ventilated area. Verify the cylinder is completely empty (0 PSIG). Remove or cover any hazard labels. Return empty supplier for recycling.  
NOTE: Check with the local waste authority before placing any gas cylinder into a waste container for pickup. GASCO encourages the consumer to return all cylinders.
- **Waste disposal key:** The U.S. EPA has not published waste numbers for this product's components.
- **Uncleaned packagings**
- **Recommendation:** Return cylinder and unused product to supplier.

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**Trade name: Precision Calibration Gas Mixture****14 Transport Information**

- **UN-Number:** UN1954
- **DOT, ADR, IMDG, IATA** UN1954
- **UN proper shipping name:** Compressed gas, flammable, n.o.s.
- **DOT** UN1954 Compressed gas, flammable, n.o.s.
- **ADR** COMPRESSED GAS, FLAMMABLE, N.O.S.
- **IMDG, IATA** COMPRESSED GAS, FLAMMABLE, N.O.S.
- **Transport hazard class(es):**

· **DOT**

- **Class:** 2 Gases
- **Label:** 2.1

· **ADR**

- **Class:** 2 1F Gases
- **Label:** 2.1

· **IMDG, IATA**

- **Class:** 2 Gases
- **Label:** 2.1
- **Packing group:** -
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Warning: Gases
- **Danger code (Kemler):** 23
- **EMS Number:** F-D,S-U
- **Stowage Category** D
- **Stowage Code** SW2 Clear of living quarters.
- **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: Forbidden  
On cargo aircraft only: 150 kg

· **ADR**

- **Excepted quantities (EQ):** Code: E0  
Not permitted as Excepted Quantity

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- **IMDG**
- **Limited quantities (LQ):** 0
- **Excepted quantities (EQ):** Code: E0  
Not permitted as Excepted Quantity
- **UN "Model Regulation":** UN 1954 COMPRESSED GAS, FLAMMABLE, N.O.S., 2.1

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

7783-06-4 Hydrogen Sulfide

- **Section 313 (Specific toxic chemical listings):**

7783-06-4 Hydrogen Sulfide

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempt from listing.

- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

7783-06-4 Hydrogen Sulfide |

- **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

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

None of the ingredients are listed.

- **GHS label elements**

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

- **Hazard pictograms:**



GHS02 GHS04 GHS05 GHS06 GHS08

- **Signal word:** Danger

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

Hydrogen Sulfide  
Carbon Monoxide

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  - H330 Fatal if inhaled.
  - H314 Causes severe skin burns and eye damage.
  - H360 May damage fertility or the unborn child.
  - H372 Causes damage to organs through prolonged or repeated exposure.
  - H401 Toxic to aquatic life.
- May displace oxygen and cause rapid suffocation.

**· Precautionary statements:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe dusts or mists.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear eye protection / face protection.
- P273 Avoid release to the environment.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P201 Obtain special instructions before use.
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- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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- P310 Immediately call a POISON CENTER/doctor.
- P320 Specific treatment is urgent (see supplementary first aid instructions on this Safety Data Sheet).
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- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P363 Wash contaminated clothing before reuse.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P314 Get medical advice/attention if you feel unwell.
- P381 Eliminate all ignition sources if safe to do so.
- P405 Store locked up.
- P410+P403 Protect from sunlight. Store in a well-ventilated place.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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

**16 Other Information****· Relevant phrases:**

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• **Date of preparation / last revision:** 08/29/2016 / -

• **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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

Flam. Gas 1: Flammable gases – Category 1

Press. Gas: Gases under pressure – Compressed gas

Press. Gas: Gases under pressure – Dissolved gas

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Repr. 1: Reproductive toxicity – Category 1

Repr. 1A: Reproductive toxicity – Category 1A

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

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

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