

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

1.1. Product identifier

Product form : Mixtures
Trade name : Keno™ cid 2100 Robot
Product code : H32
Product group : Disinfectant

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : See product bulletin for detailed information.
Function or use category : disinfectants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

CID LINES NV
Waterpoortstraat, 2
B-8900 Ieper - Belgique
T + 32 57 21 78 77 - F +32 57 21 78 79
sds@cidlines.com - <http://www.cidlines.com>

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number |
|----------------|--|---|--|
| Australia | Poisons Information Centre | | 13 11 26 |
| Belgium | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn B -1120 Brussels | +32 70 245 245 |
| Canada | CANUTEC | | (613) 996-6666 |
| Estonia | Mürgistusteabekeskus | Gonsiori 29 15027 Tallinn | 112 16662 |
| Finland | Poison Information Centre | P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki | +358 9 471 977 |
| Iceland | Eitrunarmiðstöð Landspítali | Fossvogi 108 Reykjavik | +354 543 22 22 |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD Msida | 112 |
| Netherlands | Nationaal Vergiftigingen Informatie Centrum Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen | Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht | +31 30 274 88 88 |
| Switzerland | Centre Suisse d'Information Toxicologique Swiss Toxicological Information Centre, Schweizerisches Toxicologisches Informationszentrum STIZ | Freiestrasse 16 Postfach CH-8032 Zurich | +41 44 251 51 51 (International) 145 (National) |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | 0870 243 2241 |
| USA | American Association of Poison Control Centers | | 1-800-222-1222 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|---------------------------|------|
| Org. Perox. D | H242 |
| Met. Corr. 1 | H290 |
| Acute Tox. 4 (Oral) | H302 |
| Acute Tox. 4 (Dermal) | H312 |
| Acute Tox. 4 (Inhalation) | H332 |
| Skin Corr. 1A | H314 |
| STOT SE 3 | H335 |
| Aquatic Chronic 1 | H410 |

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Keno™cid 2100 Robot

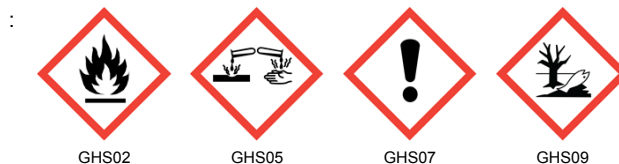
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazardous ingredients

: Hydrogen peroxide; Acetic acid

Hazard statements (CLP)

: H242 - Heating may cause a fire
H290 - May be corrosive to metals
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P308+P311 - IF exposed or concerned: Call a doctor, a POISON CENTER

EUH-statements

: EUH071 - Corrosive to the respiratory tract

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % w/w | Classification according to Directive 67/548/EEC |
|-------------------|---|---------|---|
| Hydrogen peroxide | (CAS-No.) 7722-84-1 (EC-No.) 231-765-0 (EC Index-No.) 8-003-00-9 (REACH-no) 01-2119485845-22 | 15 - 30 | O; R8 Xn; R20/22 C; R35 R5 |
| Acetic acid | (CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6 (REACH-no) 01-2119475328-30 | 5 - 15 | C; R35 R10 |
| Peracetic acid | (CAS-No.) 79-21-0 (EC-No.) 201-186-8 (EC Index-No.) 607-094-00-8 (REACH-no) 01-2119531330-56 | 1 - 5 | O; R7 Xn; R20/21/22 C; R35 N; R50 R10 |
| Name | Product identifier | % w/w | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| Hydrogen peroxide | (CAS-No.) 7722-84-1 (EC-No.) 231-765-0 (EC Index-No.) 8-003-00-9 (REACH-no) 01-2119485845-22 | 15 - 30 | Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Chronic 3, H412 |
| Acetic acid | (CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6 (REACH-no) 01-2119475328-30 | 5 - 15 | Flam. Liq. 3, H226 Skin Corr. 1A, H314 |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Name | Product identifier | % w/w | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------|---|-------|--|
| Peracetic acid | (CAS-No.) 79-21-0 (EC-No.) 201-186-8 (EC Index-No.) 607-094-00-8 (REACH-no) 01-2119531330-56 | 1 - 5 | Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Seek medical advice.
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Flush with plenty of water. Seek medical attention if ill effect or irritation develops.
- First-aid measures after eye contact : Rinse immediately with plenty of water. (Keep a bottle of water at hand). Seek medical attention immediately.
- First-aid measures after ingestion : Ingestion unlikely. Rinse mouth. Give water to drink. Do not induce vomiting because of corrosive effects. Take to hospital.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Obtain medical attention.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media can be used.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Oxidizing.
- Reactivity : Reacts violently with:Combustible. May cause fire.

5.3. Advice for firefighters

- Precautionary measures fire : No naked lights. No smoking.
- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Wear proper protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Dyke for recovery or absorb with appropriate material. Dilute residues and flush. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure prompt removal from eyes, skin and clothing. Avoid all unnecessary exposure. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations. Keep container closed when not in use. Minimize exposure to air and light.

Storage area : Germany: Storage class (LGK): 5.2 - Organic peroxides and self-reactive hazardous substances. Risk group IV OP (organic peroxides), according to Hazardous Substances Ordinance. Note: TRGS 510 "Storage of hazardous substances in portable tanks".

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Peracetic acid (79-21-0) | | |
|-------------------------------|--|-------------------------|
| EU | IOELV TWA (mg/m³) | 1 mg/m³ |
| Netherlands | MAC C (mg/m³) | 1 mg/m³ |
| Hydrogen peroxide (7722-84-1) | | |
| EU | IOELV TWA (mg/m³) | 1.4 mg/m³ |
| EU | IOELV TWA (ppm) | 1 ppm |
| Belgium | Local name | Hydrogène (peroxyde d') |
| Belgium | Limit value (mg/m³) | 1.4 mg/m³ |
| Belgium | Limit value (ppm) | 1 ppm |
| Belgium | Remark (BE) | (peroxyde d') |
| Finland | HTP-arvo (8h) (mg/m³) | 1.4 mg/m³ |
| Finland | HTP-arvo (8h) (ppm) | 1 ppm |
| Finland | HTP-arvo (15 min) | 4.2 mg/m³ |
| Finland | HTP-arvo (15 min) (ppm) | 3 ppm |
| France | VME (mg/m³) | 1.5 mg/m³ |
| France | VME (ppm) | 1 ppm |
| United Kingdom | Local name | Hydrogen peroxide |
| United Kingdom | WEL TWA (mg/m³) | 1.4 mg/m³ |
| United Kingdom | WEL TWA (ppm) | 1 ppm |
| United Kingdom | WEL STEL (mg/m³) | 2.8 mg/m³ |
| United Kingdom | WEL STEL (ppm) | 2 ppm |
| USA - ACGIH | ACGIH TWA (mg/m³) | 1.4 mg/m³ |
| USA - ACGIH | ACGIH TWA (ppm) | 1 ppm |
| USA - NIOSH | NIOSH REL (TWA) (mg/m³) | 1.4 mg/m³ |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 1 ppm |
| USA - OSHA | OSHA PEL (TWA) (mg/m³) | 1.4 mg/m³ |
| USA - OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| Acetic acid (64-19-7) | | |
| EU | IOELV TWA (mg/m³) | 25 mg/m³ |
| EU | IOELV TWA (ppm) | 10 ppm |
| Belgium | Local name | Acide acétique |
| Belgium | Limit value (mg/m³) | 25 mg/m³ |
| Belgium | Limit value (ppm) | 10 ppm |
| Belgium | Short time value (mg/m³) | 38 mg/m³ |
| Belgium | Short time value (ppm) | 15 ppm |
| France | VLE (mg/m³) | 25 mg/m³ |
| France | VLE (ppm) | 10 ppm |
| Germany | Local name | Essigsäure |
| Germany | TRGS 900 Occupational exposure limit value (mg/m³) | 25 mg/m³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 10 ppm |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m³) | 50 mg/m³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 20 ppm |
| Germany | Remark (TRGS 900) | DFG,EU,Y |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Acetic acid (64-19-7) | | |
|-----------------------|--------------------------|---------------|
| Latvia | OEL TWA (mg/m³) | 25 mg/m³ (8h) |
| Latvia | OEL TWA (ppm) | 10 ppm (8h) |
| United Kingdom | WEL TWA (mg/m³) | 25 mg/m³ |
| United Kingdom | WEL TWA (ppm) | 10 ppm |
| United Kingdom | WEL STEL (mg/m³) | 37 mg/m³ |
| United Kingdom | WEL STEL (ppm) | 15 ppm |
| USA - ACGIH | ACGIH TWA (mg/m³) | 25 mg/m³ |
| USA - ACGIH | ACGIH TWA (ppm) | 10 ppm |
| USA - ACGIH | ACGIH STEL (mg/m³) | 37 mg/m³ |
| USA - ACGIH | ACGIH STEL (ppm) | 15 ppm |
| USA - NIOSH | NIOSH REL (TWA) (mg/m³) | 25 mg/m³ |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 10 ppm |
| USA - NIOSH | NIOSH REL (STEL) (mg/m³) | 37 mg/m³ |
| USA - NIOSH | NIOSH REL (STEL) (ppm) | 15 ppm |
| USA - OSHA | OSHA PEL (TWA) (mg/m³) | 25 mg/m³ |
| USA - OSHA | OSHA PEL (TWA) (ppm) | 10 ppm |

| Peracetic acid (79-21-0) | | |
|--|-------------------|-------------------------|
| DNEL/DMEL (Workers) | | |
| Acute - systemic effects, inhalation | 0.6 mg/m³ | |
| Acute - local effects, dermal | 0.12 % in mixture | |
| Acute - local effects, inhalation | 0.6 mg/m³ | |
| Long-term - systemic effects, inhalation | 0.6 mg/m³ | |
| Long-term - local effects, inhalation | 0.6 mg/m³ | |
| DNEL/DMEL (General population) | | |
| Acute - systemic effects, inhalation | 0.6 mg/m³ | |
| Acute - local effects, dermal | 0.12 % in mixture | |
| Acute - local effects, inhalation | 0.3 mg/m³ | |
| Long-term - systemic effects, inhalation | 0.6 mg/m³ | |
| Long-term - local effects, inhalation | 0.6 mg/m³ | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0.000224 mg/l | Assessment factor: 10 |
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 0.00018 mg/kg dwt | |
| PNEC (Soil) | | |
| PNEC soil | 0.32 mg/kg dwt | Assessment factor: 1000 |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 0.051 mg/l | Assessment factor: 100 |

| Hydrogen peroxide (7722-84-1) | | |
|---------------------------------------|------------------|------------------------|
| DNEL/DMEL (Workers) | | |
| Acute - local effects, inhalation | 3 mg/m³ | |
| Long-term - local effects, inhalation | 1.4 mg/m³ | |
| DNEL/DMEL (General population) | | |
| Acute - local effects, inhalation | 1.93 mg/m³ | |
| Long-term - local effects, inhalation | 0.21 mg/m³ | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0.0126 mg/l | Assessment factor: 50 |
| PNEC aqua (marine water) | 0.0126 mg/l | Assessment factor: 50 |
| PNEC aqua (intermittent, freshwater) | 0.0138 mg/l | Assessment factor: 100 |
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 0.047 mg/kg dwt | |
| PNEC sediment (marine water) | 0.047 mg/kg dwt | |
| PNEC (Soil) | | |
| PNEC soil | 0.0023 mg/kg dwt | |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 4.66 mg/l | Assessment factor: 100 |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Acetic acid (64-19-7) | |
|---------------------------------------|------------------------------------|
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 25 mg/m³ |
| Long-term - local effects, inhalation | 25 mg/m³ |
| DNEL/DMEL (General population) | |
| Acute - local effects, inhalation | 25 mg/m³ |
| Long-term - local effects, inhalation | 25 mg/m³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 3.058 mg/l Assessment factor: 100 |
| PNEC aqua (marine water) | 0.3058 mg/l Assessment factor: 100 |
| PNEC aqua (intermittent, freshwater) | 30.58 mg/l Assessment factor: 10 |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 11.36 mg/kg dwt |
| PNEC sediment (marine water) | 1.136 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.47 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 85 mg/l Assessment factor: 10 |

8.2. Exposure controls

Personal protective equipment:

Protective goggles. Protective clothing. Gloves. Insufficient ventilation: wear respiratory protection. Face shield.

Hand protection:

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-----------------|-------------------------|-------------------|----------------|-------------|----------|
| Reusable gloves | Polyvinylchloride (PVC) | 6 (> 480 minutes) | 0.5 | 2 (< 1.5) | EN 374 |

Eye protection:

Field of use: B:B. Mechanical Strength: 3:3

| Type | Use | Characteristics | Standard |
|--------------------------------|---------------|-----------------|----------|
| Safety glasses, Safety goggles | Dust, Droplet | clear, Plastic | EN 166 |

Skin and body protection:

Wear suitable protective clothing.

| Type | Standard |
|------|----------|
| | EN 943 |

Respiratory protection:

Approved dust or mist respirator should be used if airborne particles are generated when handling this material.

| Device | Filter type | Condition | Standard |
|----------------|-------------|------------------------------------|----------------|
| Full face mask | ABEK-P3 | Vapour protection, Dust protection | EN 132, EN 140 |



Other information:

Wash clothing before re-using. Local exhaust and general ventilation must be adequate to meet exposure standards.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Colour | : Clear. |
| Odour | : Pungent. |
| Odour threshold | : No data available |
| pH | : ca 3.5 (1%) |
| Relative evaporation rate (butylacetate=1) | : No data available |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| | |
|----------------------------------|-----------------------------|
| Melting point | : -30 °C |
| Freezing point | : No data available |
| Boiling point | : 118 °C |
| Flash point | : 100 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : 55 °C May release :Oxygen |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : 27 hPa |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.11 |
| Solubility | : Complete. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with:Combustible. May cause fire.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Avoid contact with :;Acids;Alkaline mixture;Reducing agents;Metals;Organic compounds. heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

| Keno™cid 2100 Robot | |
|-------------------------------|---|
| LD50 oral rat | ca 950 mg/kg |
| LD50 dermal rabbit | > 12000 mg/kg |
| LC50 inhalation rat (mg/l) | 4.08 g/m³ |
| ATE CLP (oral) | 500.000 mg/kg bodyweight |
| ATE CLP (dermal) | 1100.000 mg/kg bodyweight |
| ATE CLP (gases) | 4500.000 ppmv/4h |
| ATE CLP (vapours) | 4.080 mg/l/4h |
| ATE CLP (dust,mist) | 4.080 mg/l/4h |
| Peracetic acid (79-21-0) | |
| LD50 dermal rabbit | 1147 mg/kg (5%, PAA mixture) |
| LC50 inhalation rat (mg/l) | 4h 4080 mg/m³ Aerosol, (5% PAA mixture) |
| ATE CLP (oral) | 500.000 mg/kg bodyweight |
| ATE CLP (dermal) | 1100.000 mg/kg bodyweight |
| ATE CLP (gases) | 4500.000 ppmv/4h |
| ATE CLP (vapours) | 11.000 mg/l/4h |
| ATE CLP (dust,mist) | 1.500 mg/l/4h |
| Hydrogen peroxide (7722-84-1) | |
| LD50 oral rat | 1193 - 1270 mg/kg |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Hydrogen peroxide (7722-84-1) | |
|-------------------------------|---------------------------|
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 0.17 mg/l/4h |
| ATE CLP (oral) | 1193.000 mg/kg bodyweight |
| ATE CLP (gases) | 4500.000 ppmv/4h |
| ATE CLP (vapours) | 11.000 mg/l/4h |
| ATE CLP (dust,mist) | 1.500 mg/l/4h |

| Acetic acid (64-19-7) | |
|-----------------------|----------------|
| LD50 oral rat | 3310 mg/kg |
| ATE CLP (oral) | 3310.000 mg/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns and eye damage. pH: ca 3.5 (1%) |
| Serious eye damage/irritation | : Serious eye damage, category 1, implicit pH: ca 3.5 (1%) |
| Respiratory or skin sensitisation | : This material was found to be non-sensitizing in guinea pigs who received subcutaneous injections. |
| Germ cell mutagenicity | : No data available |
| Carcinogenicity | : No data available |
| Reproductive toxicity | : No data available |
| STOT-single exposure | : No data available |
| STOT-repeated exposure | : No data available |
| Aspiration hazard | : No data available |

SECTION 12: Ecological information

12.1. Toxicity

| Keno™cid 2100 Robot | |
|---|------------------------------------|
| LC50 fish 1 | ca 25 mg/l 96h |
| EC50 Daphnia 1 | ca 10 mg/l 48h |
| Additional ecotoxicological information | IC50, algae: ca.12 mg/l (72 Hours) |

| Hydrogen peroxide (7722-84-1) | |
|-------------------------------|---------------|
| LC50 fish 1 | 37.4 mg/l 96h |
| EC50 Daphnia 1 | 7.7 mg/l 24h |

| Acetic acid (64-19-7) | |
|--------------------------------|------------|
| LC50 fish 1 | > 300 mg/l |
| EC50 Daphnia 1 | > 300 mg/l |
| EC50 other aquatic organisms 1 | > 300 mg/l |
| ErC50 (algae) | > 300 mg/l |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Keno™cid 2100 Robot | |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|------------------------------|---|
| Regional legislation (waste) | : Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. |
|------------------------------|---|

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

14.1. UN number

| | |
|---------------|--------|
| UN-No. (ADR) | : 3149 |
| UN-No. (IMDG) | : 3149 |
| UN-No. (IATA) | : 3149 |
| UN-No. (ADN) | : 3149 |
| UN-No. (RID) | : 3149 |

14.2. UN proper shipping name

| | |
|---------------------------------------|---|
| Proper Shipping Name (ADR) | : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED |
| Proper Shipping Name (IMDG) | : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED |
| Proper Shipping Name (IATA) | : Hydrogen peroxide and peroxyacetic acid mixture stabilized |
| Proper Shipping Name (ADN) | : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED |
| Proper Shipping Name (RID) | : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED |
| Transport document description (ADR) | : UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, (E), ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IMDG) | : UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 3149 Hydrogen peroxide and peroxyacetic acid mixture stabilized, 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (ADN) | : UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | : UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED, 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|-----------|
| Transport hazard class(es) (ADR) | : 5.1 (8) |
| Danger labels (ADR) | : 5.1, 8 |



IMDG

| | |
|-----------------------------------|-----------|
| Transport hazard class(es) (IMDG) | : 5.1 (8) |
| Danger labels (IMDG) | : 5.1, 8 |



IATA

| | |
|-----------------------------------|-----------|
| Transport hazard class(es) (IATA) | : 5.1 (8) |
| Hazard labels (IATA) | : 5.1, 8 |



ADN

| | |
|----------------------------------|-----------|
| Transport hazard class(es) (ADN) | : 5.1 (8) |
| Danger labels (ADN) | : 5.1, 8 |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010



RID

Transport hazard class(es) (RID) : 5.1 (8)
Danger labels (RID) : 5.1, 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

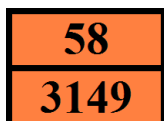
Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : Clean up even minor leaks or spills if possible without unnecessary risk.

14.6. Special precautions for user

Special transport precautions : The driver shall not attempt to deal with any fire of the load, No naked lights. No smoking, Keep public away from danger area, NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

- Overland transport

Classification code (ADR) : OC1
Special provisions (ADR) : 196, 553
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P504, IBC02
Special packing provisions (ADR) : PP10, B5
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP2, TP6, TP24
Tank code (ADR) : L4BV(+)
Tank special provisions (ADR) : TU3, TC2, TE8, TE11, TT1
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Loading, unloading and handling (ADR) : CV24
Hazard identification number (Kemler No.) : 58
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2P

- Transport by sea

Special provisions (IMDG) : 196
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| | |
|-----------------------------------|--------------------|
| Packing instructions (IMDG) | : P504 |
| Special packing provisions (IMDG) | : PP10 |
| IBC packing instructions (IMDG) | : IBC02 |
| IBC special provisions (IMDG) | : B5 |
| Tank instructions (IMDG) | : T7 |
| Tank special provisions (IMDG) | : TP2, TP6, TP24 |
| EmS-No. (Fire) | : F-H |
| EmS-No. (Spillage) | : S-Q |
| Stowage category (IMDG) | : D |
| Stowage and handling (IMDG) | : SW1 |
| Segregation (IMDG) | : SG16, SG59, SG72 |
| MFAG-No | : 145 |

- Air transport

| | |
|--|--------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y540 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA) | : 550 |
| PCA max net quantity (IATA) | : 1L |
| CAO packing instructions (IATA) | : 554 |
| CAO max net quantity (IATA) | : 5L |
| Special provisions (IATA) | : A96 |
| ERG code (IATA) | : 5C |

- Inland waterway transport

| | |
|-----------------------------------|------------|
| Classification code (ADN) | : OC1 |
| Special provisions (ADN) | : 196, 553 |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E2 |
| Equipment required (ADN) | : PP, EP |
| Number of blue cones/lights (ADN) | : 0 |

- Rail transport

| | |
|---|----------------------------|
| Classification code (RID) | : OC1 |
| Special provisions (RID) | : 196, 553 |
| Limited quantities (RID) | : 1L |
| Excepted quantities (RID) | : E2 |
| Packing instructions (RID) | : P504, IBC02 |
| Special packing provisions (RID) | : PP10, B5 |
| Mixed packing provisions (RID) | : MP15 |
| Portable tank and bulk container instructions (RID) | : T7 |
| Portable tank and bulk container special provisions (RID) | : TP2, TP6, TP24 |
| Tank codes for RID tanks (RID) | : L4BV(+) |
| Special provisions for RID tanks (RID) | : TU3, TC2, TE8, TE11, TT1 |
| Transport category (RID) | : 2 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW24 |
| Colis express (express parcels) (RID) | : CE6 |
| Hazard identification number (RID) | : 58 |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Other information, restriction and prohibition regulations : Ensure all national/local regulations are observed.

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1
Store unit : 50 liter
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information : The information provided in this Technical Safety Data Sheet is correct to the best of our knowledge and while we endeavor to keep the information up to date and correct according to the state of the art, we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability or suitability with respect to the information contained in this technical data sheet. Any reliance you place on such information is therefore strictly at your own risk. In no event will we be liable for any loss or damage (including, without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising from loss of profits) arising out of, or in connection with, the use of this information and /or the use, handling, processing or storage of the product. Always consult the Safety Data Sheet and product label for more info about security.

Full text of R-, H- and EUH-statements:

| | |
|---------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Org. Perox. D | Organic Peroxides, Type D |
| Ox. Liq. 1 | Oxidising Liquids, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour |
| H242 | Heating may cause a fire |
| H271 | May cause fire or explosion; strong oxidiser |
| H290 | May be corrosive to metals |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |

Keno™cid 2100 Robot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| | |
|-----------|--|
| H314 | Causes severe skin burns and eye damage |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |
| EUH071 | Corrosive to the respiratory tract |
| R10 | Flammable |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed |
| R20/22 | Harmful by inhalation and if swallowed |
| R35 | Causes severe burns |
| R5 | Heating may cause an explosion |
| R50 | Very toxic to aquatic organisms |
| R7 | May cause fire |
| R8 | Contact with combustible material may cause fire |
| C | Corrosive |
| N | Dangerous for the environment |
| O | Oxidising |
| Xn | Harmful |

SDS EU CLP DPD

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product