1. Identification

Product identifier: MIVACRON INJECTION

Other means of identification

Synonyms: MIVACRON 2 MG/ML INJECTION * MIVACRON 10 MG/5 ML INJEKTIONSLOSUNG * MIVACRON 20 MG/10 ML INJEKTIONSLOSUNG * MIVACURIUM CHLORIDE, FORMULATED PRODUCT

Recommended use: Medicinal Product

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to medicinal use of the product. In this instance patients should consult prescribing information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.

Recommended restrictions: No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer: GlaxoSmithKline US
5 Moore Drive
Research Triangle Park, NC 27709 USA
US General Information (normal business hours): +1-888-825-5249
Email Address: msds@gsk.com
Website: www.gsk.com

EMERGENCY PHONE NUMBERS - TRANSPORT EMERGENCIES:
US / International toll call +1 703 527 3887 available 24 hrs/7 days; multi-language response

2. Hazard(s) identification

Classified hazards
Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Label elements
Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Hazard(s) not otherwise classified (HNOC)
Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIVACURIUM CHLORIDE</td>
<td>1090U81 DICHLORIDE *(R)-1,2,3,4-TETRAHYDRO-2-(3-HYDROXYPROPYL)-6,7-DIMETHOXY-2-METHYL-1-(3,4,5-TRIMETHOXYBENZYL)ISOQUINOLINIUMCHLORIDE, (E)-4-OCTENEDIOATE (2:1) * MVCD * MVCE * GW297632A * 1609 (GW ACN)</td>
<td>106861-44-3</td>
<td>0.22</td>
</tr>
<tr>
<td>HYDROCHLORIC ACID</td>
<td>HYDROCHLORIC ACID SOLUTIONS * RTECS MW4025000 * MURIATIC ACID * AQUEOUS HYDROGEN CHLORIDE * CHLORHYDRIC ACID * HCL</td>
<td>7647-01-0</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Other components below reportable levels 99.77

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.
4. First-aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist. If breathing is difficult, trained personnel should give oxygen. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact
Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if symptoms occur.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion
If swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.

Most important symptoms/effects, acute and delayed
The following adverse effects have been noted with therapeutic use of this material: interference with control of muscle contraction; flushing.

Indication of immediate medical attention and special treatment needed
Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information center.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.

5. Fire-fighting measures

Suitable extinguishing media
Foam. Dry chemical powder. Carbon dioxide (CO2). Water.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>GSK Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIVACURIIUM CHLORIDE (CAS 106861-44-3)</td>
<td>15 MIN STEL</td>
<td>500 mcg/m3</td>
</tr>
<tr>
<td>GSK Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>----------------</td>
<td>------</td>
<td>---------</td>
</tr>
<tr>
<td></td>
<td>OHC</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID (CAS 7647-01-0)</td>
<td>Ceiling</td>
<td>7 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID (CAS 7647-01-0)</td>
<td>Ceiling</td>
<td>2 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID (CAS 7647-01-0)</td>
<td>Ceiling</td>
<td>7 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

General ventilation normally adequate. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Not normally needed. If contact is likely, safety glasses with side shields are recommended.

**Hand protection**

Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

**Skin protection**

Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.

**Respiratory protection**

No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional.

### 9. Physical and chemical properties

**Appearance**

- **Physical state**: Liquid.
- **Form**: Vial.
- **Color**: Not available.
- **Odor**: Not available.
- **Odor threshold**: Not available.
- **pH**: 4.5 - 6.5
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not available.
Upper/lower flammability or explosive limits

- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.

Vapor pressure: Not available.
Vapor density: Not available.
Relative density: Not available.
Solubility(ies):
  - Solubility (water): Not available.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: Irritating and/or toxic fumes and gases may be emitted upon the product’s decomposition.

11. Toxicological information

Information on likely routes of exposure:

- Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
- Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- Skin contact: Health injuries are not known or expected under normal use.
- Eye contact: Health injuries are not known or expected under normal use. Avoid contact with eyes.

Symptoms related to the physical, chemical and toxicological characteristics: The following adverse effects have been noted with therapeutic use of this material: interference with control of muscle contraction; flushing.

Information on toxicological effects:

Acute toxicity: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID (CAS 7647-01-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>1108 ppm, 1 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>3124 ppm, 1 Hours</td>
</tr>
<tr>
<td>LCL0</td>
<td>Guinea pig</td>
<td>4416 ppm, 30 minutes</td>
</tr>
<tr>
<td></td>
<td>Human</td>
<td>3000 ppb, 5 minutes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1300 ppm, 30 minutes</td>
</tr>
<tr>
<td></td>
<td>Rabbit</td>
<td>4416 ppm, 30 minutes</td>
</tr>
<tr>
<td></td>
<td>Human</td>
<td>&lt;= 1.8 ppm, 45 minutes No effect on respiratory function in asthmatics.</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>------------------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>Oral</td>
<td>Rabbit</td>
<td>900 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>700 mg/kg</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Inhalation</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOAEL</td>
<td>Rat</td>
<td>10 ppm, 128 weeks</td>
</tr>
<tr>
<td><strong>Subacute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Oral</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD</td>
<td>Rat</td>
<td>34.1 mg/kg/day, 9 weeks</td>
</tr>
<tr>
<td>LOEL</td>
<td>Rat</td>
<td>10.2 mg/kg/day, 9 weeks</td>
</tr>
<tr>
<td><strong>Subchronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Inhalation</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOEC</td>
<td>Rat</td>
<td>10 ppm, 3 months Inflammation of lips and nasal cavity.</td>
</tr>
<tr>
<td><strong>NOAEC</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>20 ppm, 3 months</td>
</tr>
</tbody>
</table>

**MIVACURIUM CHLORIDE** (CAS 106861-44-3)

| Acute            |                     |              |
| *Oral*           |                     |              |
| LD50             | Rat                 | 165 mg/kg    |
| **Subacute**     |                     |              |
| *Other*          |                     |              |
| Evident Toxicity | Rat                 | > 0.8 mg/kg/day, 14 days subcutaneous injection |

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**  
Health injuries are not known or expected under normal use.

**Corrosivity**

**HYDROCHLORIC ACID**  
OECD 404  
Result: Corrosive  
Species: Rabbit  
Test Duration: 1 Hours

**Irritation Corrosion - Skin**

**MIVACURIUM CHLORIDE**  
SAR / QSAR, DEREK, Lhasa, UK  
Result: Plausible

**Serious eye damage/eye irritation**  
Health injuries are not known or expected under normal use.

**Eye**

**HYDROCHLORIC ACID**  
OECD 405  
Result: Corrosive effects/irritation  
Species: Rabbit  
SAR / QSAR, DEREK, Lhasa, UK  
Result: Plausible

**Respiratory or skin sensitization**

**Respiratory sensitization**  
Not available.

**Skin sensitization**  
Not applicable.

**Sensitization**

**MIVACURIUM CHLORIDE**  
SAR / QSAR, DEREK, Lhasa, UK  
Result: Plausible

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**

**HYDROCHLORIC ACID**  
<= 10 mmol/L Chromosomal Aberration Assay In Vitro, CHO cells, IUCLID  
Result: Positive

**MIVACURIUM CHLORIDE**  
Ames Assay, GLP assay  
Result: Negative
Mutagenicity

**HYDROCHLORIC ACID**
- Ames, IUCLID
  - Result: Negative

**MIVACURIUM CHLORIDE**
- Chromosomal Aberration Assay In Vitro, human lymphocytes
  - Result: Negative
- Cytogenetic Analysis In Vivo, bone marrow, GLP assay;
  - maximum dose = 0.8 mg/kg, subcutaneous injection
  - Result: Negative
- Species: Rat

**HYDROCHLORIC ACID**
- E coli Pol-A repair assay, IUCLID
  - Result: Negative

**MIVACURIUM CHLORIDE**
- Mouse Lymphoma Cell (L5178Y) Mutation Assay, GLP assay
  - Result: Negative

**HYDROCHLORIC ACID**
- Yeast Mutation Assay, IUCLID
  - Result: Negative

**Carcinogenicity**
- Not classifiable as to carcinogenicity to humans.

**HYDROCHLORIC ACID**
- 10 ppm Inhalation
  - Result: Negative
  - Species: Rat
  - Observation Period: 128 months
  - Notes: IUCLID

**MIVACURIUM CHLORIDE**
- SAR / QSAR, DEREK, Lhasa, UK
  - Result: Negative

**IARC Monographs. Overall Evaluation of Carcinogenicity**
- HYDROCHLORIC ACID (CAS 7647-01-0)
  - 3 Not classifiable as to carcinogenicity to humans.

- Not listed.

**Reproductive toxicity**
- Contains no ingredient listed as toxic to reproduction

**Reproductivity**

**HYDROCHLORIC ACID**
- 302 ppm Embryo-foetal development, IUCLID
  - Result: Maternal toxicity, resorptions, foetal malformations.
  - Species: Rat

**MIVACURIUM CHLORIDE**
- Embryo-foetal development - Subcutaneous
  - Result: NOAEL = 0.5 mg/kg/day, subcutaneous (maximum dose); no adverse maternal or foetal effects
  - Species: Mouse
  - Embryo-foetal development - Subcutaneous
  - Result: NOAEL = 0.8 mg/kg/day, subcutaneous (maximum dose); no adverse maternal or foetal effects
  - Species: Rat

**Specific target organ toxicity - single exposure**

**HYDROCHLORIC ACID**
- Nervous system.
  - Result: Respiratory irritation/corrosion.

**Specific target organ toxicity - repeated exposure**
- Not established.

**Aspiration hazard**
- Not likely, due to the form of the product.

**Further information**
- Caution - Pharmaceutical agent.

### 12. Ecological information

**Ecotoxicity**
- The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Components**

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIVACURIUM CHLORIDE (CAS 106861-44-3)</td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td>Activated Sludge</td>
<td>IC50</td>
</tr>
<tr>
<td>Respiration</td>
<td>Residential sludge</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50 Water flea (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>NOEC Water flea (Daphnia magna)</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**

- **Photolysis**
  - UV/visible spectrum wavelength
    - MIVACURUM CHLORIDE 202 nm, pH 2-11
- **Biodegradability**
  - Percent degradation (Aerobic biodegradation-soil)
    - MIVACURUM CHLORIDE < 36 %, 45 days
- **Bioaccumulative potential**
  - No data available.
- **Partition coefficient n-octanol / water (log Kow)**
  - MIVACURUM CHLORIDE 0.015

**Mobility in soil**

- No data available.

**Adsorption**

- Soil/sediment sorption - log Koc
  - MIVACURUM CHLORIDE 4.26 - 4.5, pH 4.9-8.2

**Mobility in general**

- Not available.

**Volatility**

- Henry’s law
  - MIVACURUM CHLORIDE 0 atm m^3/mol Calculated

**Other adverse effects**

- Not available.

**13. Disposal considerations**

- **Disposal instructions**
  - Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
- **Local disposal regulations**
  - Dispose in accordance with all applicable regulations.
- **Hazardous waste code**
  - The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- **Waste from residues / unused products**
  - Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- **Contaminated packaging**
  - Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

- **DOT**
  - Not regulated as a dangerous good.
- **IATA**
  - Not regulated as dangerous goods.
- **IMDG**
  - Not regulated as dangerous goods.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
  - MARPOL Annex II applies to liquids used in a ship’s operation that pose a threat to the marine environment. These materials may not be transported in bulk.

**15. Regulatory information**

- **US federal regulations**
  - One or more components are not listed on TSCA.
  - TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
    - Not regulated.
  - CERCLA Hazardous Substance List (40 CFR 302.4)
    - HYDROCHLORIC ACID (CAS 7647-01-0) Listed.
  - SARA 304 Emergency release notification
    - HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Reportable quantity</th>
<th>Threshold planning quantity</th>
<th>Threshold planning quantity, lower value</th>
<th>Threshold planning quantity, upper value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCHLORIC ACID</td>
<td>7647-01-0</td>
<td>5000</td>
<td>500 lbs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
HYDROCHLORIC ACID (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
HYDROCHLORIC ACID (CAS 7647-01-0)

Safe Drinking Water Act (SDWA)
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)
HYDROCHLORIC ACID (CAS 7647-01-0)

DEA Essential Chemical Code Number
HYDROCHLORIC ACID (CAS 7647-01-0) 6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
HYDROCHLORIC ACID (CAS 7647-01-0) 20 %WV

DEA Exempt Chemical Mixtures Code Number
HYDROCHLORIC ACID (CAS 7647-01-0) 6545

US state regulations
US. Massachusetts RTK - Substance List
HYDROCHLORIC ACID (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act
HYDROCHLORIC ACID (CAS 7647-01-0)

US. Pennsylvania Worker and Community Right-to-Know Law
HYDROCHLORIC ACID (CAS 7647-01-0)

US. Rhode Island RTK
HYDROCHLORIC ACID (CAS 7647-01-0)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
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<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
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<tr>
<td>------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
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</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 08-14-2014
Revision date: 08-14-2014
Version #: 07

Further information: HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings:
- Health: 1
- Flammability: 0
- Physical hazard: 0

NFPA ratings:
- Health: 1
- Flammability: 0
- Instability: 0

References: GSK Hazard Determination

Disclaimer: The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Revision Information:
- Product and Company Identification: Business Units
- Composition / Information on Ingredients: Ingredients
- Physical & Chemical Properties:
- Toxicological Information:
- Ecological Information: GSK Environmental Hazard Assessment Concentration
- Transport Information: Agency Name, Packaging Type, and Transport Mode Selection
- Regulatory Information: United States
- GHS: Classification