1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Mometasone Metered Dose Inhaler Formulation

Manufacturer or supplier's details
Company : MSD
Address : 199 Wenhai North Road
          HEDA, Hangzhou - Zhejiang Province - CHINA  310018
Telephone : 908-740-4000
Emergency telephone number : 86-571-87268110
E-mail address : EHSDATASTEWARD@msd.com

Recommended use of the chemical and restrictions on use
Recommended use : Pharmaceutical

2. HAZARDS IDENTIFICATION

Emergency Overview
Appearance : Aerosol containing a dissolved gas
Colour : white to off-white
Odour : odourless
Pressurised container: May burst if heated. Toxic to aquatic life with long lasting effects.

GHS Classification
Aerosols : Category 3
Long-term (chronic) aquatic hazard : Category 2

GHS label elements
Hazard pictograms : WARNING

Signal word : Warning
Hazard statements : H229 Pressurised container: May burst if heated.
                  H411 Toxic to aquatic life with long lasting effects.
Precautionary statements : Prevention:
                          P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
                          No smoking.
**SAFETY DATA SHEET**

according to GB/T 16483 and GB/T 17519

**Mometasone Metered Dose Inhaler Formulation**

Version 2.2

Revision Date: 2020/10/16

SDS Number: 25983-00016

Date of last issue: 2020/03/23

Date of first issue: 2014/10/28

---

P251 Do not pierce or burn, even after use.
P273 Avoid release to the environment.

**Response:**
P391 Collect spillage.

**Storage:**
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

---

**Physical and chemical hazards**

Pressurised container: May burst if heated.

**Health hazards**

Not classified based on available information.

**Environmental hazards**

Toxic to aquatic life with long lasting effects.

**Other hazards which do not result in classification**

May displace oxygen and cause rapid suffocation.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol#</td>
<td>64-17-5</td>
<td>&gt;= 1.8 - &lt;= 2.5</td>
</tr>
<tr>
<td>Mometasone</td>
<td>83919-23-7</td>
<td>&gt;= 0.08 - &lt;= 0.18</td>
</tr>
</tbody>
</table>

# Voluntarily-disclosed non-hazardous substance

---

### 4. FIRST AID MEASURES

**General advice**

In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

**If inhaled**

If inhaled, remove to fresh air.

Get medical attention.

**In case of skin contact**

In case of contact, immediately flush skin with soap and plenty of water.

Remove contaminated clothing and shoes.

Get medical attention.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

**In case of eye contact**

Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.
# Mometasone Metered Dose Inhaler Formulation

**Version** 2.2  
**Revision Date:** 2020/10/16  
**SDS Number:** 25983-00016  
**Date of last issue:** 2020/03/23  
**Date of first issue:** 2014/10/28

| If swallowed | : | If swallowed, DO NOT induce vomiting.  
| : | : | Get medical attention.  
| : | : | Rinse mouth thoroughly with water.  
| Most important symptoms and effects, both acute and delayed | : | None known.  
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).  
| Notes to physician | : | Treat symptomatically and supportively.  

## 5. FIREFIGHTING MEASURES

| Suitable extinguishing media | : | Water spray  
| : | : | Alcohol-resistant foam  
| : | : | Carbon dioxide (CO2)  
| : | : | Dry chemical  
| Unsuitable extinguishing media | : | None known.  
| Specific hazards during firefighting | : | Exposure to combustion products may be a hazard to health.  
| : | : | If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.  
| Hazardous combustion products | : | Carbon oxides  
| : | : | Fluorine compounds  
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
| : | : | Use water spray to cool unopened containers.  
| : | : | Remove undamaged containers from fire area if it is safe to do so.  
| : | : | Evacuate area.  
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.  
| : | : | Use personal protective equipment.  

## 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.  
| : | : | Ventilate the area.  
| : | : | Use personal protective equipment.  
| : | : | Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).  
| Environmental precautions | : | Avoid release to the environment.  
| : | : | Prevent further leakage or spillage if safe to do so.  
| : | : | Prevent spreading over a wide area (e.g. by containment or oil barriers).  
| : | : | Retain and dispose of contaminated wash water.  
| : | : | Local authorities should be advised if significant spillages cannot be contained.  
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material.  
| : | : | For large spills, provide dyking or other appropriate contain-
ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 7. HANDLING AND STORAGE

**Handling**
- **Technical measures**: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- **Local/Total ventilation**: If sufficient ventilation is unavailable, use with local exhaust ventilation.
- **Advice on safe handling**: Do not get on skin or clothing.
  - Do not breathe vapours or spray mist.
  - Do not swallow.
  - Avoid contact with eyes.
  - Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
  - Keep container tightly closed.
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - Take care to prevent spills, waste and minimize release to the environment.

**Avoidance of contact**: Oxidizing agents

**Storage**
- **Conditions for safe storage**: Keep tightly closed.
  - Keep in a cool, well-ventilated place.
  - Store in accordance with the particular national regulations.
  - Do not pierce or burn, even after use.
  - Keep cool. Protect from sunlight.
- **Materials to avoid**: Do not store with the following product types:
  - Strong oxidizing agents
- **Packaging material**: Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
Mometasone Metered Dose Inhaler Formulation

Version 2.2  Revision Date: 2020/10/16  SDS Number: 25983-00016  Date of last issue: 2020/03/23  Date of first issue: 2014/10/28

<table>
<thead>
<tr>
<th>Mometasone 83919-23-7</th>
<th>TWA</th>
<th>1 µg/m3 (OEB 4)</th>
<th>Internal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Further information: Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wipe limit 10 µg/100 cm²</td>
<td>Internal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Personal protective equipment**

Respiratory protection: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type: Self-contained breathing apparatus

Skin and body protection: Skin should be washed after contact.

Hygiene measures: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**: Aerosol containing a dissolved gas

**Colour**: white to off-white

**Odour**: odourless

**Odour Threshold**: No data available

**pH**: No data available

**Melting point/freezing point**: No data available

**Initial boiling point and boiling range**: -16 °C

**Flash point**: No data available

**Evaporation rate**: No data available

**Flammability (solid, gas)**: Not applicable

**Flammability (liquids)**: No data available

**Upper explosion limit / Upper flammability limit**: No data available

**Lower explosion limit / Lower flammability limit**: No data available

**Vapour pressure**: No data available

**Relative vapour density**: No data available

**Relative density**: No data available
Mometasone Metered Dose Inhaler Formula-
tion

10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Can react with strong oxidizing agents.

Conditions to avoid: None known.
Incompatible materials: Oxidizing agents
Hazardous decomposition products: No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation
                  Skin contact
                  Ingestion
                  Eye contact

Acute toxicity: Not classified based on available information.

Components:

Ethanol:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Mometasone Metered Dose Inhaler Formulation

Version: 2.2
Revision Date: 2020/10/16
SDS Number: 25983-00016
Date of last issue: 2020/03/23
Date of first issue: 2014/10/28

Acute inhalation toxicity:
LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Mometasone:
Acute oral toxicity:
LD50 (Rat): > 2,000 mg/kg
LD50 (Mouse): > 2,000 mg/kg

Acute inhalation toxicity:
LC50 (Rat): > 3.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: No mortality observed at this dose.

LC50 (Mouse): > 3.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute toxicity (other routes of administration):
LD50 (Rat): 300 mg/kg
Application Route: Subcutaneous
Symptoms: Breathing difficulties

Skin corrosion/irritation
Not classified based on available information.

Components:

Ethanol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Mometasone:
Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Components:

Ethanol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

Mometasone:
Species: Rabbit
Result: No eye irritation
Respiratory or skin sensitisation

Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

Components:

Ethanol:
- Test Type: Local lymph node assay (LLNA)
- Exposure routes: Skin contact
- Species: Mouse
- Result: negative

Mometasone:
- Test Type: Maximisation Test
- Exposure routes: Dermal
- Species: Guinea pig
- Assessment: Does not cause skin sensitisation.
- Result: negative
- Remarks: The results of a test on guinea pigs showed this substance to be a weak skin sensitizer.

Germ cell mutagenicity
Not classified based on available information.

Components:

Ethanol:
- Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
  Result: negative

  Test Type: Bacterial reverse mutation assay (AMES)
  Result: negative

Genotoxicity in vivo: Test Type: Rodent dominant lethal test (germ cell) (in vivo)
  Species: Mouse
  Application Route: Ingestion
  Result: equivocal

Mometasone:
- Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
  Result: negative

  Test Type: Chromosomal aberration
  Test system: Chinese hamster lung cells
  Result: negative

  Test Type: Chromosomal aberration
SAFETY DATA SHEET
according to GB/T 16483 and GB/T 17519

Mometasone Metered Dose Inhaler Formula- tion

Test system: Chinese hamster ovary cells
Result: positive

Test Type: Mouse Lymphoma
Result: negative

Genotoxicity in vivo:
- Test Type: Micronucleus test
  Species: Mouse
  Application Route: Oral
  Result: negative

- Test Type: Chromosomal aberration
  Species: Rat
  Cell type: Bone marrow
  Result: negative

- Test Type: unscheduled DNA synthesis assay
  Species: Rat
  Cell type: Liver cells
  Result: negative

Germ cell mutagenicity - Assessment:
Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity
Not classified based on available information.

Components:

Mometasone:
Species: Rat
Application Route: Inhalation
Exposure time: 2 Years
Dose: 0.067 mg/kg body weight
Result: negative

Species: Mouse
Application Route: Inhalation
Exposure time: 19 Months
Dose: 0.160 mg/kg body weight
Result: negative

Reproductive toxicity
Not classified based on available information.

Components:

Ethanol:
Effects on fertility:
- Test Type: Two-generation reproduction toxicity study
  Species: Mouse
  Application Route: Ingestion
  Result: negative

Date of last issue: 2020/03/23
Date of first issue: 2014/10/28

9 / 17
Mometasone Metered Dose Inhaler Formula-
tion

Mometasone:
Effects on fertility
: Test Type: Fertility
Species: Rat
Application Route: Subcutaneous
Fertility: NOAEL: 0.015 mg/kg body weight
Symptoms: Reduced embryonic survival, Reduced foetal weight
Result: No effects on fertility, Effect on reproduction capacity

Effects on foetal development
: Test Type: Embryo-foetal development
Species: Mouse
Application Route: Subcutaneous
Embryo-foetal toxicity: LOAEL: 0.06 mg/kg body weight
Result: Embryotoxic effects., Teratogenicity and development-
tal toxicity

Test Type: Embryo-foetal development
Species: Rat
Application Route: Dermal
Embryo-foetal toxicity: LOAEL: 0.3 mg/kg body weight
Result: Embryo-foetal toxicity

Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Dermal
Embryo-foetal toxicity: LOAEL: 0.15 mg/kg body weight
Result: Embryo-foetal toxicity, Malformations were observed.

Test Type: Embryo-foetal development
Species: Rat
Application Route: Subcutaneous
Embryo-foetal toxicity: LOAEL: 0.15 mg/kg body weight
Result: Effects on newborn

Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Oral
Embryo-foetal toxicity: LOAEL: 0.7 mg/kg body weight
Result: Embryo-foetal toxicity, Malformations were observed.

Reproductive toxicity - As-
essment
: Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure
Not classified based on available information.

Components:
Mometasone:
Remarks
: Based on available data, the classification criteria are not met.
**SAFETY DATA SHEET**

according to GB/T 16483 and GB/T 17519

**Mometasone Metered Dose Inhaler Formula-**

**tion**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>2020/10/16</td>
<td>25983-00016</td>
<td>2020/03/23</td>
<td>2014/10/28</td>
</tr>
</tbody>
</table>

**STOT - repeated exposure**

Not classified based on available information.

**Components:**

**Mometasone:**
- **Exposure routes**: inhalation (dust/mist/fume)
- **Target Organs**: Immune system, Liver, Kidney, Skin
- **Assessment**: May cause damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity**

**Components:**

**Ethanol:**
- **Species**: Rat
- **NOAEL**: 1,280 mg/kg
- **LOAEL**: 3,156 mg/kg
- **Application Route**: Ingestion
- **Exposure time**: 90 Days

**Mometasone:**
- **Species**: Rat
- **NOAEL**: 0.005 mg/kg
- **LOAEL**: 0.3 mg/kg
- **Application Route**: Oral
- **Exposure time**: 30 d
- **Target Organs**: Lymph nodes, Liver, Adrenal gland, Skin, thymus gland

**Species**: Dog
- **NOAEL**: 0.5 mg/kg
- **Application Route**: Oral
- **Exposure time**: 30 d
- **Target Organs**: Lymph nodes, Liver, Adrenal gland, Skin, thymus gland

**Species**: Rat
- **NOAEL**: 0.00013 mg/l
- **Application Route**: inhalation (dust/mist/fume)
- **Exposure time**: 90 d
- **Target Organs**: Adrenal gland, Lungs, Lymph nodes, spleen, Bone marrow, Kidney, Liver, thymus gland

**Species**: Dog
- **NOAEL**: 0.0005 mg/l
- **Application Route**: inhalation (dust/mist/fume)
- **Exposure time**: 90 d
- **Target Organs**: Adrenal gland, Lungs, Lymph nodes, spleen, Bone marrow, Kidney, thymus gland, Liver
Aspiration toxicity
Not classified based on available information.

Components:
Mometasone: Not applicable

Experience with human exposure

Components:
Mometasone: Inhalation
Symptoms: allergic rhinitis, Headache, pharyngitis, upper respiratory tract infection, sinusitis, oral candidiasis, Back pain, musculoskeletal pain, immune system effects, indigestion
Skin contact: Symptoms: Dermatitis, Itching

Further information

Components:
Mometasone: Remarks: Dermal absorption possible

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
Ethanol:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates: EC50 (Ceriodaphnia (water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants: ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h
EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to microorganisms: EC50 (Pseudomonas putida): 6,500 mg/l Exposure time: 16 h

Mometasone:
Toxicity to fish: LC50 (Menidia beryllina (Silverside)): 0.11 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 5 mg/l
Exposure time: 7 d
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 5 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

EC50 (Americamysis): > 5 mg/l
Exposure time: 96 h
Method: US-EPA OPPTS 850.1035
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants: EC50 (Pseudokirchneriella subcapitata (green algae)): > 3.2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity): NOEC (Pimephales promelas (fathead minnow)): 0.00014 mg/l
Exposure time: 32 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.34 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility

M-Factor (Chronic aquatic toxicity): 100

Toxicity to microorganisms: EC50: > 1,000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
Remarks: No toxicity at the limit of solubility

NOEC: 1,000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
Remarks: No toxicity at the limit of solubility

Persistence and degradability

Components:

Ethanol:
SAFETY DATA SHEET  
according to GB/T 16483 and GB/T 17519

Mometasone Metered Dose Inhaler Formula-
tion

Version 2.2 Revision Date: 2020/10/16  SDS Number: 25983-00016  Date of last issue: 2020/03/23  Date of first issue: 2014/10/28

Biodegradability:  Result: Readily biodegradable.  
                     Biodegradation: 84 %  
                     Exposure time: 20 d

Mometasone:
Biodegradability:  Result: Not readily biodegradable.  
                     Biodegradation: 50 %  
                     Exposure time: 28 d  
                     Method: OECD Test Guideline 314

Stability in water:  Hydrolysis: 50 % (12 d)  
                     Method: OECD Test Guideline 111

Bioaccumulative potential

Components:

Ethanol:
Partition coefficient: n-octanol/water:  log Pow: -0.35

Mometasone:
Bioaccumulation:  Species: Lepomis macrochirus (Bluegill sunfish)  
                   Bioconcentration factor (BCF): 107.1  
                   Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water:  log Pow: 4.68

Mobility in soil

Components:

Mometasone:
Distribution among environmental compartments:  log Koc: 4.02

Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods:
Waste from residues:  Dispose of in accordance with local regulations.  
Contaminated packaging:  Empty containers should be taken to an approved waste handling site for recycling or disposal.  
                        If not otherwise specified: Dispose of as unused product.  
                        Please ensure aerosol cans are sprayed completely empty (including propellant)
SAFETY DATA SHEET
according to GB/T 16483 and GB/T 17519

Mometasone Metered Dose Inhaler Formulation

Version 2.2  Revision Date: 2020/10/16  SDS Number: 25983-00016  Date of last issue: 2020/03/23
Date of first issue: 2014/10/28

14. TRANSPORT INFORMATION

International Regulations

**UNRTDG**
- UN number: UN 1950
- Proper shipping name: AEROSOLS
- Class: 2.2
- Packing group: Not assigned by regulation
- Labels: 2.2

**IATA-DGR**
- UN/ID No.: UN 1950
- Proper shipping name: Aerosols, non-flammable
- Class: 2.2
- Packing group: Not assigned by regulation
- Labels: Non-flammable, non-toxic Gas
- Packing instruction (cargo aircraft): 203
- Packing instruction (passenger aircraft): 203

**IMDG-Code**
- UN number: UN 1950
- Proper shipping name: AEROSOLS (Mometasone)
- Class: 2.2
- Packing group: Not assigned by regulation
- Labels: 2.2
- EmS Code: F-D, S-U
- Marine pollutant: yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

**GB 6944/12268**
- UN number: UN 1950
- Proper shipping name: AEROSOLS
- Class: 2.2
- Packing group: Not assigned by regulation
- Labels: 2.2

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

National regulatory information
Law on the Prevention and Control of Occupational Diseases
Montreal Protocol: 1,1,1,2,3,3,3-Heptafluoropropane

The components of this product are reported in the following inventories:
- AICS: not determined
- DSL: not determined
- IECSC: not determined

16. OTHER INFORMATION

Further information:

Date format: yyyy/mm/dd

Full text of other abbreviations:
- ACGIH: USA. ACGIH Threshold Limit Values (TLV)
- ACGIH / STEL: Short-term exposure limit

All abbreviations:
- AIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transport...
portation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user’s end product, if applicable.

CN / EN