



常州进出口工业及消费品安全检测中心  
江苏出入境检验检疫局危险货物与包装检测中心  
国家化学品分类鉴别与评估重点实验室（江苏）



正本  
ORIGINAL

## Design Report of Safety Data Sheet

Report No.: DG1615890B

Date: 2016/11/14

检验检测专用章

|  |   |          |    |
|--|---|----------|----|
| Name of the sample                         | Chlorodifluoromethane   |          |    |
| Applicant                                  | JIANGSU MEILAN CHEMICAL CO., LTD.   |          |    |
| Manufacturer                               | JIANGSU MEILAN CHEMICAL CO., LTD.   |          |    |
| Composition of the sample                  | Chlorodifluoromethane: $\geq 99.9\%$  |          |    |
| Warranty of Design                         | GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Sixth revised edition, 2015 |          |    |
| Design Result of SDS please see next page. |   |          |    |
| Designer                                   | 华雯  | Approver | 王红 |

1. This SDS is valid before the implementation of the seventh revised edition GHS.
2. Information from applicant is key of this SDS, so the center will not respond for the wrong of applicant.

注1: 除非特别说明,本报告中数据仅对检测样品负责。

UNLESS OTHERWISE STATED, THE RESULTS SHOWN IN THIS TEST REPORT REFER ONLY TO THE SAMPLE(S) TESTED.

注2: 未经本中心许可,本报告不得部分复制。

THIS TEST REPORT CAN NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT PRIOR WRITTEN PERMISSION OF THE CENTER.

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**SAFETY DATA SHEET****Chlorodifluoromethane**

JIANGSU MEILAN CHEMICAL CO., LTD.

- According to GHS (Sixth Revised Edition)

**SDS****Section 1 Product and Company Identification****> Product Identifier**

|                   |                       |
|-------------------|-----------------------|
| Product Name      | Chlorodifluoromethane |
| Synonyms          | -                     |
| CAS No.           | 75-45-6               |
| EC No.            | 200-871-9             |
| Molecular Formula | CHClF <sub>2</sub>    |

**> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

|                          |                              |
|--------------------------|------------------------------|
| Relevant Identified Uses | Please consult manufacturer. |
| Uses Advised Against     | Please consult manufacturer. |

**> Details of the Supplier of the Safety Data Sheet**

|                        |   |
|------------------------|---|
| Applicant Name         | JIANGSU MEILAN CHEMICAL CO., LTD.                           |
| Application Address    | No.460 Yangzhou Road, Taizhou City, Jiangsu Province, China |
| Applicant Post Code    | 225300  |
| Applicant Telephone    | +86-523-86552276  |
| Applicant Fax          | +86-523-86602888  |
| Applicant E-mail       | jsmlsck@meilanchem.com                                      |
| Manufacturer Name      | JIANGSU MEILAN CHEMICAL CO., LTD.                           |
| Manufacturer Address   | No.460 Yangzhou Road, Taizhou City, Jiangsu Province, China |
| Manufacturer Post Code | 225300  |
| Manufacturer Telephone | +86-523-86552276  |
| Manufacturer Fax       | +86-523-86602888  |
| Manufacturer E-mail    | jsmlsck@meilanchem.com                                      |

**> Emergency Phone Number**

|                        |                  |
|------------------------|------------------|
| Emergency Phone Number | +86-523-86552276 |
|------------------------|------------------|

**Section 2 Hazards Identification**

Hazard class and label elements of the product according to GHS (the sixth revised edition):

**> GHS Hazard Class**

|                      |               |
|----------------------|---------------|
| Gases Under Pressure | Liquefied gas |
|----------------------|---------------|



**Hazardous To The  
Ozone Layer**

Category 1

## &gt; GHS Label Elements

Pictogram



Signal Word

**Warning**

## &gt; Hazard Statements

H280

Contains gas under pressure; may explode if heated

H420

Harms public health and the environment by destroying ozone in the upper atmosphere

## &gt; Precautionary Statements

Prevention

Not applicable

Response

Not applicable

Storage

P410+P403

Protect from sunlight. Store in a well-ventilated place.

Disposal

P502

Refer to manufacturer or supplier for information on recovery or recycling.

**Section 3 Composition/Information on Ingredients**

| Component             | Concentration (weight percent, %) | CAS No. | EC No.    |
|-----------------------|-----------------------------------|---------|-----------|
| Chlorodifluoromethane | >= 99.9                           | 75-45-6 | 200-871-9 |

**Section 4 First Aid Measures**

## &gt; Description of First Aid Measures

General Advice

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of  
First-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

## &gt; Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## &gt; Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.

- 2 Symptoms may be delayed.

## Section 5 Fire Fighting Measures

### > Extinguishing Media

#### Suitable Extinguishing Media

Dry chemical or carbon dioxide.

#### Unsuitable

#### Extinguishing Media

Do not use a solid water stream as it may scatter or spread fire.

### > Specific Hazards Arising from the Substance or Mixture

- 1 High concentrations of gas may cause asphyxiation without warning.
- 2 Contact with gas may cause burns, severe injury and/ or frostbite.
- 3 Containers may explode when heated.
- 4 Fire exposed containers may vent contents through pressure relief valves.
- 5 May expansion or decompose explosively when heated or involved in fire.

### > Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 Accidental Release Measure

### > Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

### > Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

### > Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.



- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

#### > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

## Section 8 Exposure Controls/Personal Protection

#### > Control Parameters

##### Occupational Exposure Limit Values

| Component                            | Country/Region | Limit Value - Eight Hours |                   | Limit Value - Short Term |                   |
|--------------------------------------|----------------|---------------------------|-------------------|--------------------------|-------------------|
|                                      |                | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| Chlorodifluoro<br>methane<br>75-45-6 | USA - NIOSH    | 1000                      | 3500              | 1250                     | 4375              |
|                                      | South Korea    | 1000                      | 3500              | 1250                     | 4375              |
|                                      | Ireland        | 1000                      | 3600              | -                        | -                 |
|                                      | Germany (AGS)  | -                         | 3600              | -                        | -                 |
|                                      | Denmark        | 500                       | 1770              | 1000                     | 3540              |
|                                      | Australia      | 1000                      | 3540              | -                        | -                 |

##### Biological Limit Values

No information available

##### Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air( Series standard ).

#### > Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

#### > Personal Protection Equipment

|                                 |  |
|---------------------------------|--|
| <b>Eye Protection</b>           | Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).  |
| <b>Hand Protection</b>          | Wear protective gloves ( such as butyl rubber ) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.   |
| <b>Respiratory protection</b>   | If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. |
| <b>Skin and Body Protection</b> | Wear fire/flame resistant/retardant clothing and antistatic boots.   |

## Section 9 Physical and Chemical Properties

**Appearance:** Colorless gas

**Odor:** No information available

|  |   |
|--|---|
| <b>Odor Threshold:</b> No information available                    | <b>pH:</b> Not applicable   |
| <b>Melting Point/Freezing Point (°C):</b> -146                     | <b>Initial Boiling Point and Boiling Range (°C):</b> -41  |
| <b>Flash Point (°C)( Closed Cup):</b> Not applicable               | <b>Evaporation Rate:</b> Not applicable   |
| <b>Flammability:</b> No information available                      | <b>Upper/lower explosive limits[% (v/v)]:</b> Upper limit :<br>No information available ; Lower limit : No information<br>available |
| <b>Vapor Pressure (MPa):</b> Not applicable                        | <b>Vapor Density (g/mL):</b> Not applicable   |
| <b>Relative Density (g/cm³):</b> Not applicable                    | <b>Solubility:</b> Insoluble in water   |
| <b>n-Octanol/Water Partition Coefficient:</b> Not<br>applicable    | <b>Auto-Ignition Temperature(°C):</b> 632   |
| <b>Decomposition Temperature (°C):</b> No information<br>available | <b>Kinematic Viscosity (mm²/s):</b> Not applicable  |
| <b>Particle characteristics:</b> Not applicable                    |   |

## Section 10 Stability and Reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                               | Contact with incompatible substances can cause decomposition or other chemical reactions.            |
| <b>Chemical Stability</b>                       | Stable under proper operation and storage conditions.  |
| <b>Possibility of<br/>Hazardous Reactions</b>   | No information available   |
| <b>Conditions to Avoid</b>                      | Incompatible materials, heat, flame and spark.   |
| <b>Incompatible Materials</b>                   | No information available   |
| <b>Hazardous<br/>Decomposition<br/>products</b> | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11 Toxicological Information

### > Acute Toxicity

No information available

### > Skin Corrosion/Irritation

No information available

### > Serious Eye Damage/Irritation

No information available

### > Skin Sensitization

No information available

### > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available



**> Carcinogenicity**

| ID | CAS No. | Component             | IARC       | NTP        |
|----|---------|-----------------------|------------|------------|
| 1  | 75-45-6 | Chlorodifluoromethane | Category 3 | Not Listed |

**> Reproductive Toxicity**

No information available

**> Reproductive Toxicity (Additional)**

No information available

**> STOT-Single Exposure**

No information available

**> STOT-Repeated Exposure**

No information available

**> Aspiration Hazard**

No information available

## Section 12 Ecological Information

**> Acute Aquatic Toxicity**

No information available

**> Chronic Aquatic Toxicity**

No information available

**> Others****Persistence and Degradability**

No information available

**Bioaccumulative Potential**

No information available

**Mobility in Soil**

No information available

**Results of PBT and vPvB Assessment**

Chlorodifluoromethane does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

## Section 13 Disposal Considerations

**Waste Chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated Packaging Disposal**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

**Recommendations**

Refer to section 13.1 and 13.2.

## Section 14 Transport Information

## Transporting Label



|                                   |                       |
|-----------------------------------|-----------------------|
| Marine pollutant                  | None                  |
| UN Number                         | 1018                  |
| UN Proper Shipping Name           | CHLORODIFLUOROMETHANE |
| Transport Hazard Class            | 2.2                   |
| Transport Subsidiary Hazard Class | None                  |
| Packing Group                     | Not applicable        |

## Section 15 Regulatory Information

## &gt; International Chemical Inventory

| Component             | EINECS | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AICS | ENCS |
|-----------------------|--------|------|-----|-------|-------|-------|------|------|------|
| Chlorodifluoromethane | ✓      | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

## Note

"✓" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## Section 16 Additional Information

|                     |            |
|---------------------|------------|
| Creation Date       | 2016/11/14 |
| Revision Date       | 2016/11/14 |
| Reason for Revision | -          |

## &gt; Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.