

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

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### SECTION 1. IDENTIFICATION

Product name : Freon™ 134a Auto (HFC-134a) Refrigerant  
SDS-Identcode : 130000024024  
Other means of identification : No data available

#### Manufacturer or supplier's details

Company name of supplier : The Chemours Canada Company  
Address : 151 Bloor Street West - 12th Floor  
Toronto, ON M5S 1S4 Canada  
Telephone : 1-844-773-CHEM (2436)  
Emergency telephone : +1 703-741-5970

#### Recommended use of the chemical and restrictions on use

Recommended use : Refrigerant  
Restrictions on use : For professional and industrial installation and use only.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Gases under pressure : Liquefied gas  
Simple Asphyxiant : Category 1

#### GHS label elements

Hazard pictograms :   
Signal Word : Warning  
Hazard Statements : H280 Contains gas under pressure; may explode if heated.  
May displace oxygen and cause rapid suffocation.  
Precautionary Statements : **Storage:**  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



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### Other hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	1,1,1,2-Tetrafluoroethane
CAS-No.	:	811-97-2
Common Name/Synonym	:	HFC-134a

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
1,1,1,2-Tetrafluoroethane#	HFC-134a	811-97-2	>= 99.9 - <= 100

# Voluntarily-disclosed substance

## SECTION 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
In case of skin contact	: Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately.
In case of eye contact	: Get medical attention immediately.
If swallowed	: Ingestion is not considered a potential route of exposure.
Most important symptoms and effects, both acute and delayed	: May cause cardiac arrhythmia. Other symptoms potentially related to misuse or inhalation abuse are Cardiac sensitization Anaesthetic effects Light-headedness Dizziness confusion Lack of coordination Drowsiness

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version 8.14	Revision Date: 01/11/2026	SDS Number: 1329602-00050	Date of last issue: 05/27/2025 Date of first issue: 02/27/2017
-----------------	------------------------------	------------------------------	---

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	<p>Unconsciousness May displace oxygen and cause rapid suffocation. Gas reduces oxygen available for breathing. Contact with liquid or refrigerated gas can cause cold burns and frostbite. No information available.</p>
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with special caution. No information available.

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## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Not applicable Will not burn
Unsuitable extinguishing media	: Not applicable Will not burn
Specific hazards during fire fighting	: 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	: Hydrogen fluoride carbonyl fluoride Carbon oxides
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. 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 fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Avoid skin contact with leaking liquid (danger of frostbite). Ventilate the area.
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# SAFETY DATA SHEET

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## Freon™ 134a Auto (HFC-134a) Refrigerant

Version 8.14	Revision Date: 01/11/2026	SDS Number: 1329602-00050	Date of last issue: 05/27/2025 Date of first issue: 02/27/2017
-----------------	------------------------------	------------------------------	---

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.  
Retain and dispose of contaminated wash water.

Methods and materials for containment and cleaning up : Ventilate the area.  
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.

## SECTION 7. HANDLING AND STORAGE

Technical measures : Use equipment rated for cylinder pressure. Use a backflow preventative device in piping. Close valve after each use and when empty.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid breathing gas.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Wear cold insulating gloves/ face shield/ eye protection.  
Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point.  
Prevent backflow into the gas tank.  
Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.  
Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems.  
Close valve after each use and when empty. Do NOT change or force fit connections.  
Prevent the intrusion of water into the gas tank.  
Never attempt to lift cylinder by its cap.  
Do not drag, slide or roll cylinders.  
Use a suitable hand truck for cylinder movement.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.  
Separate full containers from empty containers.  
Do not store near combustible materials.  
Avoid area where salt or other corrosive materials are present.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version 8.14	Revision Date: 01/11/2026	SDS Number: 1329602-00050	Date of last issue: 05/27/2025 Date of first issue: 02/27/2017
-----------------	------------------------------	------------------------------	---

Keep in properly labeled containers.  
Keep in a cool, well-ventilated place.  
Keep away from direct sunlight.  
Store in accordance with the particular national regulations.

Materials to avoid	: Do not store with the following product types: Self-reactive substances and mixtures Organic peroxides Oxidizing agents Flammable liquids Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Very acutely toxic substances and mixtures Acutely toxic substances and mixtures Substances and mixtures with chronic toxicity
Recommended storage temperature	: < 52 °C
Storage period	: > 10 y
Further information on storage stability	: The product has an indefinite shelf life when stored properly.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown.

Hand protection  
Material : Low temperature resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

workday. Breakthrough time is not determined for the product. Change gloves often!

Eye protection : Wear the following personal protective equipment:  
Chemical resistant goggles must be worn.  
Face-shield

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

Protective measures : Wear cold insulating gloves/ face shield/ eye protection.

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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquefied gas

Color : colorless

Odor : slight, ether-like

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : -108 °C

Initial boiling point and boiling range : -26 °C (1,013 hPa)

Flash point : Not applicable

Evaporation rate : > 1  
(CCL4=1.0)

Flammability (solid, gas) : Will not burn

Self-ignition : The substance or mixture is not classified as pyrophoric.

Upper explosion limit / Upper flammability limit : Upper flammability limit  
Method: ASTM E681  
None.

Lower explosion limit / Lower flammability limit : Lower flammability limit

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version 8.14	Revision Date: 01/11/2026	SDS Number: 1329602-00050	Date of last issue: 05/27/2025 Date of first issue: 02/27/2017
-----------------	------------------------------	------------------------------	---

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flammability limit	Method: ASTM E681 None.
Vapor pressure	: 5,700 hPa (20 °C)
Relative vapor density	: 3.6
Relative density	: 1.208 (25 °C)
Density	: 1.21 g/cm³ (25 °C) (as liquid)
Solubility(ies)	
Water solubility	: 1.5 g/l (25 °C)
Partition coefficient: n-octanol/water	: log Pow: 0.025 (25 °C)
Autoignition temperature	: > 743 °C
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Particle characteristics	
Particle size	: Not applicable

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.
Possibility of hazardous reactions	: Can react with strong oxidizing agents.
Conditions to avoid	: This substance is not flammable in air at temperatures up to 100 °C (212 °F) at atmospheric pressure. However, mixtures of this substance with high concentrations of air at elevated pressure and/or temperature can become combustible in the presence of an ignition source. This substance can also become combustible in an oxygen enriched environment (oxygen concentrations greater than that in air). Whether a mixture containing this substance and air, or this substance in an oxygen enriched atmosphere become combustible depends on

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

the inter-relationship of 1) the temperature 2) the pressure, and 3) the proportion of oxygen in the mixture. In general, this substance should not be allowed to exist with air above atmospheric pressure or at high temperatures; or in an oxygen enriched environment. For example this substance should NOT be mixed with air under pressure for leak testing or other purposes.

Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation

Skin contact

Eye contact

### Acute toxicity

Not classified based on available information.

### Components:

#### 1,1,1,2-Tetrafluoroethane:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 567000 ppm  
Exposure time: 4 h  
Test atmosphere: gas  
Method: OECD Test Guideline 403

No observed adverse effect concentration (Dog): 40000 ppm  
Test atmosphere: gas  
Remarks: Cardiac sensitization

Lowest observed adverse effect concentration (Dog): 80000 ppm  
Test atmosphere: gas  
Symptoms: May cause cardiac arrhythmia.

Cardiac sensitisation threshold limit (Dog): 334,000 mg/m<sup>3</sup>  
Test atmosphere: gas  
Symptoms: May cause cardiac arrhythmia.

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Not classified based on available information.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Result : No skin irritation

#### **Serious eye damage/eye irritation**

Not classified based on available information.

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Result : No eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Routes of exposure : Skin contact  
Result : negative

Routes of exposure : Inhalation  
Species : Rat  
Result : negative

Routes of exposure : Inhalation  
Species : Humans  
Result : negative

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: inhalation (gas)

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

Method: OECD Test Guideline 474  
Result: negative

Test Type: Unscheduled DNA synthesis (UDS) test with  
mammalian liver cells in vivo

Species: Rat

Application Route: inhalation (gas)

Method: OECD Test Guideline 486

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:

#### 1,1,1,2-Tetrafluoroethane:

Species : Rat  
Application Route : inhalation (gas)  
Exposure time : 2 Years  
Method : OECD Test Guideline 453  
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### Reproductive toxicity

Not classified based on available information.

### Components:

#### 1,1,1,2-Tetrafluoroethane:

Effects on fertility : Species: Mouse  
Application Route: Inhalation  
Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the  
reproduction/developmental toxicity screening test  
Species: Rabbit  
Application Route: inhalation (gas)  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT-single exposure

May displace oxygen and cause rapid suffocation.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Routes of exposure : inhalation (gas)  
Assessment : No significant health effects observed in animals at concentrations of 20000 ppmV/4h or less

#### **STOT-repeated exposure**

Not classified based on available information.

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Routes of exposure : inhalation (gas)  
Assessment : No significant health effects observed in animals at concentrations of 250 ppmV/6h/d or less.

#### **Repeated dose toxicity**

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Species : Rat, male and female  
NOAEL : 50000 ppm  
LOAEL : >50000 ppm  
Application Route : inhalation (gas)  
Exposure time : 2 y  
Method : OECD Test Guideline 453

#### **Aspiration toxicity**

Not classified based on available information.

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

No aspiration toxicity classification

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### Components:

#### **1,1,1,2-Tetrafluoroethane:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 450 mg/l  
Exposure time: 96 h  
Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 980 mg/l  
Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version 8.14      Revision Date: 01/11/2026      SDS Number: 1329602-00050      Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

---

Toxicity to algae/aquatic plants : ErC50 (green algae): > 100 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Components:

##### **1,1,1,2-Tetrafluoroethane:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D

### Bioaccumulative potential

#### Components:

##### **1,1,1,2-Tetrafluoroethane:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.06

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 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.  
Empty pressure vessels should be returned to the supplier.  
If not otherwise specified: Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

#### **International Regulations**

##### **UNRTDG**

UN number : UN 3159  
Proper shipping name : 1,1,1,2-TETRAFLUOROETHANE  
Class : 2.2  
Packing group : Not assigned by regulation  
Labels : 2.2  
Environmentally hazardous : no

##### **IATA-DGR**

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version 8.14	Revision Date: 01/11/2026	SDS Number: 1329602-00050	Date of last issue: 05/27/2025 Date of first issue: 02/27/2017
-----------------	------------------------------	------------------------------	---

UN/ID No.	:	UN 3159
Proper shipping name	:	1,1,1,2-Tetrafluoroethane
Class	:	2.2
Packing group	:	Not assigned by regulation
Labels	:	Non-flammable, non-toxic Gas
Packing instruction (cargo aircraft)	:	200
Packing instruction (passen- ger aircraft)	:	200

### IMDG-Code

UN number	:	UN 3159
Proper shipping name	:	1,1,1,2-TETRAFLUOROETHANE
Class	:	2.2
Packing group	:	Not assigned by regulation
Labels	:	2.2
EmS Code	:	F-C, S-V
Marine pollutant	:	no

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

Not applicable for product as supplied.

### Domestic regulation

#### TDG

UN number	:	UN 3159
Proper shipping name	:	1,1,1,2-TETRAFLUOROETHANE
Class	:	2.2
Packing group	:	Not assigned by regulation
Labels	:	2.2
ERG Code	:	126
Marine pollutant	:	no

### 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.

## SECTION 15. REGULATORY INFORMATION

### International Regulations

Montreal Protocol : 1,1,1,2-Tetrafluoroethane

### Canadian lists

No substances are subject to CEPA Section 84 Ministerial Conditions.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Freon™ 134a Auto (HFC-134a) Refrigerant

Version  
8.14

Revision Date:  
01/11/2026

SDS Number:  
1329602-00050

Date of last issue: 05/27/2025  
Date of first issue: 02/27/2017

### SECTION 16. OTHER INFORMATION

Freon™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours™ and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

#### Full text of other abbreviations

AIIC - 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 Standardization; 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 Organization 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; 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

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 01/11/2026  
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# SAFETY DATA SHEET

according to the Hazardous Products Regulations



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---

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.

CA / Z8