



## SAFETY DATA SHEET

### R-227ea

Commission Regulation (EU) 2020/878 of 18 June 2020.  
According to Regulation (EC) No 1907/2006, Annex II, as amended.  
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

##### 1.1. Product identifier

Product name	R-227ea
Chemical name	1,1,1,2,3,3,3-heptafluoropropane
CAS number	431-89-0
EC number	207-079-2
Synonyms; trade names	R-227ea/ FM-200

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

Identified uses	Fire extinguishing agents.
Uses advised against	For use in industrial installations or professional treatment only.

##### 1.3. Details of the supplier of the safety data sheet

Supplier	Cantaş Kimya Sanayi ve Ticaret A.Ş. Çerkeşli Mahallesi, Gebze V (Kimya) İhtisas OSB, Fatma Börü Caddesi No:5/1 41455 Dilovası/ Kocaeli T el: 0212 910 1260 / (Monday - Friday, 8:30 am-17:30 pm) E-posta: info@cantaskimya.com
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##### 1.4. Emergency telephone number

Emergency telephone	Cantaş: +90 212 910 12 60
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)	
Physical hazards	Press. Gas (Liq.) - H280
Health hazards	Not Classified
Environmental hazards	Not Classified

Additional information Classification (Regulation (EC) No. 1272/2008).

##### 2.2. Label elements

EC number	207-079-2
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##### Hazard pictograms



Signal word	Warning
Hazard statements	H280 Contains gas under pressure; may explode if heated.
Precautionary statements	P410+P403 Protect from sunlight. Store in a well-ventilated place.



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### 2.3. Other hazards

Vapours 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. May displace oxygen and cause rapid suffocation.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Product name	R-227ea
Chemical name	1,1,1,2,3,3,3-heptafluoropropane
CAS number	431-89-0
EC number	207-079-2
Amount w/w	≥99.5

### 3.2. Mixtures

Description	Not applicable.
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur.
Skin contact	No specific symptoms known.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.



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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Not applicable. The product is non-combustible.

**Unsuitable extinguishing media** Not applicable. The product is non-combustible.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Exposure to combustion products can be a health hazard. Danger of explosion in containers if temperature rises due to high vapor pressure.

**Hazardous combustion products** No hazardous decomposition products are known.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

### 6.2. Environmental precautions

**Environmental precautions** Exposure to aquatic environment unlikely. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.



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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

##### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Storage precautions

Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Protect containers from damage. Keep horizontal design tube/drum/tanks horizontal, vertical design tube/drum/tank upright. Protect from sunlight. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent. Store in tightly-closed, original container. Store at temperatures not exceeding 52°C.

##### Storage class

Compressed gas storage.

#### 7.3. Specific end use(s)

##### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 2 ppm 20 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

##### DNEL

Workers - Inhalation; Long term systemic effects: 61279 mg/m<sup>3</sup>  
General population - Inhalation; Long term systemic effects: 6355 mg/m<sup>3</sup>

##### PNEC

- Fresh water; 0,1 mg/l  
- Water, Intermittent release; 1 mg/l  
- Sediment (Freshwater); 1.3 mg/kg  
- STP; 1.73 mg/l

#### 8.2. Exposure controls

##### Protective equipment





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<b>Appropriate engineering controls</b>	Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.
<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. To protect hands against cold burns, gloves must comply with the EN 511 standard. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquefied gas
<b>Colour</b>	Colourless.
<b>Odour</b>	Mild ethereal odor.
<b>Odour threshold</b>	No information available.
<b>pH</b>	Neutral
<b>Melting point</b>	-129.5°C
<b>Initial boiling point and range</b>	-17°C



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<b>Flash point</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Nonflammable.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	4.547 hPa @ 25°C 540 hPa @ -30°C 29.360 hPa @ 123°C
<b>Vapour density</b>	6.04
<b>Relative density</b>	1.46
<b>Density or relative density</b>	1.4-1.5 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	0.23 g/l (25 °C) (Su)
<b>Partition coefficient</b>	log Pow: 2.289
<b>Auto-ignition temperature</b>	532°C
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidizing.
<b>Particle characteristics</b>	Not applicable.
<b>9.2. Other information</b>	
<b>Other information</b>	No information required.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** Reactions with the following materials may cause explosions: Strong oxidising agents. Alkali metals. Alkaline earth metals.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

#### 10.4. Conditions to avoid

**Conditions to avoid** Heat, sparks, flames. Avoid excessive heat for prolonged periods of time. pressure Oxygen. Chlorine.

#### 10.5. Incompatible materials

**Materials to avoid** Oxidising agents. Alkali metals. Alkaline earth metals. Powdered metal. Oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen fluoride (HF). Phosgene (COCl<sub>2</sub>).



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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

##### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

##### IARC carcinogenicity

None of the ingredients are listed or exempt.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

##### Reproductive toxicity - development

Based on available data the classification criteria are not met.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

##### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

##### Aspiration hazard

**Aspiration hazard** Not relevant. Gas.

##### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.



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<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	No specific symptoms known.
<b>Route of exposure</b>	Inhalation Skin and/or eye contact
<b>Target organs</b>	No specific target organs known.

### 11.2. Information on other hazards

**Information on other hazards** This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Toxicity** Based on available data the classification criteria are not met.

#### Acute aquatic toxicity

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hour: >200 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hour: >114 mg/l, Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

**Persistence and degradability** Not inherently biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** log Pow: 2.289

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** The product does not contain any endocrine disrupting substance.





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### 12.7. Other adverse effects

Other adverse effects                      None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	The generation of waste should be minimised or avoided wherever possible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Empty containers or liners may retain some product residues and hence be potentially hazardous.
<b>Disposal methods</b>	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling.

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN No. (ADR/RID)	3296
UN No. (IMDG)	3296
UN No. (ICAO)	3296
UN No. (ADN)	3296

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	HEPTAFLUOROPROPANE (REFRIGERANT GAS R227)
Proper shipping name (IMDG)	HEPTAFLUOROPROPANE (REFRIGERANT GAS R227)
Proper shipping name (ICAO)	HEPTAFLUOROPROPANE (REFRIGERANT GAS R227)
Proper shipping name (ADN)	HEPTAFLUOROPROPANE (REFRIGERANT GAS R227)

### 14.3. Transport hazard class(es)

ADR/RID class	2.2
ADR/RID classification code	2A
ADR/RID label	2.2
IMDG class	2.2
ICAO class/division	2.2
ADN class	2.2



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### Transport labels



#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-C, S-V
ADR transport category	3
Emergency Action Code	2T
Hazard Identification Number (ADR/RID)	20
Tunnel restriction code	(C/E)
Limited quantities (ADR)	120 ml

#### 14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable.

### SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. Commission Regulation (EU) 2020/878 of 18 June 2020. Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII	No specific restrictions on use are known for this product.



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**Seveso Directive - Control of major accident hazards** Not relevant.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.          ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.          RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.          IATA: International Air Transport Association.          ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.          IMDG: International Maritime Dangerous Goods.          CAS: Chemical Abstracts Service.          ATE: Acute Toxicity Estimate.          LC50: Lethal Concentration to 50 % of a test population.          LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).          EC<sub>50</sub>: 50% of maximal Effective Concentration.          PBT: Persistent, Bioaccumulative and Toxic substance.          vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Press. Gas (Liq.) = Gas under pressure: Liquefied gas</p>
<b>Key literature references and sources for data</b>	<p>This SDS is prepared based on the information received from the product owner.          Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a></p>
<b>Classification procedures according to SI 2019 No. 720</b>	<p>Press. Gas (Liq.) - H280: : Expert judgement.</p>
<b>Revision comments</b>	<p>SDS has been revised under the current regulations.</p>
<b>Issued by</b>	<p>Büşra Tarakci / CRAD          gbf@crad.com.tr Tel.:+90 216 3354600</p>
<b>Revision date</b>	<p>31/05/2023</p>
<b>Revision</b>	<p>0.1</p>
<b>Supersedes date</b>	<p>24/01/2020</p>
<b>SDS number</b>	<p>9860</p>
<b>Hazard statements in full</b>	<p>H280 Contains gas under pressure; may explode if heated.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.