SAFETY DATA SHEET

Agilent Technologies

Preconditioner Unit_temperature -90C

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

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

Product name : Preconditioner Unit_temperature -90C

CAS number :

R1150 ETHYLENE	74-85-1
Halocarbon R-14 (Tetrafluoromethane)	75-73-0
Genetron AZ-50 (R-507)	Not applicable.

Part no. (chemical kit) : G5222-60003, G5222-60004, G5222-60005, G5222-60006, G5222-60007, G5222-60008, G5222-69003, G5222-69003-DEF, G5222-69004, G5222-69004-DEF, G5222-69005, G5222-69005-DEF, G5222-69006, G5222-69006-DEF, G5222-69007, G5222-69007-DEF, G5222-69008, G5222-69008-DEF

Part no. :

R1150 ETHYLENE	Not available.
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	Not available.

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

Identified uses : Analytical chemistry.

R1150 ETHYLENE	0.98 oz (in hermetic refrigeration system)
Halocarbon R-14 (Tetrafluoromethane)	≤ 1.24 oz (in hermetic refrigeration system)
Genetron AZ-50 (R-507)	1.02 oz (in hermetic refrigeration system)

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

SECTION 2: Hazards identification

Product definition : R1150 ETHYLENE — Mono-constituent substance (encapsulated in article)
Halocarbon R-14 (Tetrafluoromethane) — Mono-constituent substance (encapsulated in article)
Genetron AZ-50 (R-507) — Mixture (encapsulated in article)

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

R1150 ETHYLENE

H220	FLAMMABLE GASES	Category 1A
H280	GASES UNDER PRESSURE	Compressed gas

Halocarbon R-14 (Tetrafluoromethane)

H280	GASES UNDER PRESSURE	Liquefied gas

Genetron AZ-50 (R-507)

H220	FLAMMABLE GASES	Category 1A
H280	GASES UNDER PRESSURE	Compressed gas

R1150 ETHYLENE — The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Halocarbon R-14 (Tetrafluoromethane) — The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Genetron AZ-50 (R-507) — The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown ecotoxicity : Genetron AZ-50 (R-507) — Contains 50% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : R1150 ETHYLENE

Halocarbon R-14 (Tetrafluoromethane)

Genetron AZ-50 (R-507)

Signal word : R1150 ETHYLENE — Danger
Halocarbon R-14 (Tetrafluoromethane) — Warning
Genetron AZ-50 (R-507) — Danger

Hazard statements : R1150 ETHYLENE — H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.
Halocarbon R-14 (Tetrafluoromethane) — H280 - Contains gas under pressure; may explode if heated.
Genetron AZ-50 (R-507) — H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.

Precautionary statements

SECTION 2: Hazards identification

Prevention	:	R1150 ETHYLENE	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	:	R1150 ETHYLENE	P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources.
Storage	:	R1150 ETHYLENE	P403 - Store in a well-ventilated place.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	P403 - Store in a well-ventilated place.
Disposal	:	R1150 ETHYLENE	Not applicable.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	Not applicable.
Supplemental label elements	:	R1150 ETHYLENE	Not applicable.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	R1150 ETHYLENE	Not applicable.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	Not applicable.

Special packaging requirements

Tactile warning of danger	:	R1150 ETHYLENE	Not applicable.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

PBT	P	B	T	vPvB	vP	vB
R1150 ETHYLENE						
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Halocarbon R-14 (Tetrafluoromethane)						
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Genetron AZ-50 (R-507) This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification	:	R1150 ETHYLENE	Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
		Halocarbon R-14 (Tetrafluoromethane)	Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
		Genetron AZ-50 (R-507)	Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack

SECTION 2: Hazards identification

of oxygen.

SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

3.1 Substances : R1150 ETHYLENE — Mono-constituent substance (encapsulated in article)

Halocarbon R-14 (Tetrafluoromethane) — Mono-constituent substance (encapsulated in article)

Genetron AZ-50 (R-507) — Mixture (encapsulated in article)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
R1150 ETHYLENE					
Ethylene	EC: 200-815-3 CAS: 74-85-1	100	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[1]
Halocarbon R-14 (Tetrafluoromethane)					
carbon tetrafluoride	EC: 200-896-5 CAS: 75-73-0	100	Press. Gas (Liq.), H280 **See Section 16 for the full text of the H statements declared above.**	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

R1150 ETHYLENE — [1] Constituent

Halocarbon R-14 (Tetrafluoromethane) — [1] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : R1150 ETHYLENE — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Halocarbon R-14 (Tetrafluoromethane) — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Genetron AZ-50 (R-507) — Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : R1150 ETHYLENE — Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe.

Halocarbon R-14 (Tetrafluoromethane) — Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical

SECTION 4: First aid measures

			attention if adverse health effects persist or are severe. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Genetron AZ-50 (R-507)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	R1150 ETHYLENE	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur.
		Halocarbon R-14 (Tetrafluoromethane)	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area.
		Genetron AZ-50 (R-507)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur.
Ingestion	:	R1150 ETHYLENE Halocarbon R-14 (Tetrafluoromethane)	As this product is a gas, refer to the inhalation section. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. As this product rapidly becomes a gas when released, refer to the inhalation section.
		Genetron AZ-50 (R-507)	As this product is a gas, refer to the inhalation section.
Protection of first-aiders	:	R1150 ETHYLENE	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
		Halocarbon R-14 (Tetrafluoromethane)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
		Genetron AZ-50 (R-507)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	:	R1150 ETHYLENE	Contact with rapidly expanding gas may cause burns or frostbite.
		Halocarbon R-14 (Tetrafluoromethane)	Liquid can cause burns similar to frostbite.
		Genetron AZ-50 (R-507)	Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	:	R1150 ETHYLENE	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
		Halocarbon R-14 (Tetrafluoromethane)	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
		Genetron AZ-50 (R-507)	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

SECTION 4: First aid measures

Skin contact	:	R1150 ETHYLENE	Contact with rapidly expanding gas may cause burns or frostbite.
		Halocarbon R-14 (Tetrafluoromethane)	Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
		Genetron AZ-50 (R-507)	Contact with rapidly expanding gas may cause burns or frostbite.
Ingestion	:	R1150 ETHYLENE	As this product is a gas, refer to the inhalation section.
		Halocarbon R-14 (Tetrafluoromethane)	Ingestion of liquid can cause burns similar to frostbite.
		Genetron AZ-50 (R-507)	As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	Adverse symptoms may include the following: frostbite
		Genetron AZ-50 (R-507)	No specific data.
Inhalation	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	No specific data.
		Genetron AZ-50 (R-507)	No specific data.
Skin contact	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	Adverse symptoms may include the following: frostbite
		Genetron AZ-50 (R-507)	No specific data.
Ingestion	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	Adverse symptoms may include the following: frostbite
		Genetron AZ-50 (R-507)	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	R1150 ETHYLENE	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Halocarbon R-14 (Tetrafluoromethane)	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Genetron AZ-50 (R-507)	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	R1150 ETHYLENE	No specific treatment.
		Halocarbon R-14 (Tetrafluoromethane)	No specific treatment.
		Genetron AZ-50 (R-507)	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	R1150 ETHYLENE	Use an extinguishing agent suitable for the surrounding fire.
		Halocarbon R-14 (Tetrafluoromethane)	Use an extinguishing agent suitable for the surrounding fire.
		Genetron AZ-50 (R-507)	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	R1150 ETHYLENE	None known.
		Halocarbon R-14 (Tetrafluoromethane)	None known.
		Genetron AZ-50 (R-507)	None known.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

Hazards from the substance or mixture	:	R1150 ETHYLENE	Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
		Halocarbon R-14 (Tetrafluoromethane)	Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
		Genetron AZ-50 (R-507)	Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion.
Hazardous combustion products	:	R1150 ETHYLENE	Decomposition products may include the following materials: carbon dioxide carbon monoxide
		Halocarbon R-14 (Tetrafluoromethane)	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides
		Genetron AZ-50 (R-507)	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides

5.3 Advice for firefighters

Special precautions for fire-fighters	:	R1150 ETHYLENE	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.
		Halocarbon R-14 (Tetrafluoromethane)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		Genetron AZ-50 (R-507)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	:	R1150 ETHYLENE	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
		Halocarbon R-14 (Tetrafluoromethane)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.
		Genetron AZ-50 (R-507)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	R1150 ETHYLENE	Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.
		Halocarbon R-14 (Tetrafluoromethane)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Genetron AZ-50 (R-507)	Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.
For emergency responders	:	R1150 ETHYLENE	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Halocarbon R-14 (Tetrafluoromethane)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Genetron AZ-50 (R-507)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions

R1150 ETHYLENE	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Halocarbon R-14 (Tetrafluoromethane)	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Genetron AZ-50 (R-507)	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

R1150 ETHYLENE	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.
Halocarbon R-14 (Tetrafluoromethane)	Immediately contact emergency personnel. Stop leak if without risk.
Genetron AZ-50 (R-507)	Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

R1150 ETHYLENE	Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.
Halocarbon R-14 (Tetrafluoromethane)	Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.
Genetron AZ-50 (R-507)	Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be

SECTION 7: Handling and storage

hazardous. Do not puncture or incinerate container.

Advice on general occupational hygiene :

R1150 ETHYLENE: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Halocarbon R-14 (Tetrafluoromethane): Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Genetron AZ-50 (R-507): Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage :

R1150 ETHYLENE: Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Halocarbon R-14 (Tetrafluoromethane): Do not store above the following temperature: 52°C (125.6°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Genetron AZ-50 (R-507): Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
R1150 ETHYLENE P2	10 tonne	50 tonne
Genetron AZ-50 (R-507) P2	10 tonne	50 tonne

7.3 Specific end use(s)

Recommendations :

R1150 ETHYLENE: Industrial applications, Professional applications.

Halocarbon R-14 (Tetrafluoromethane): Industrial applications, Professional applications.

Genetron AZ-50 (R-507): Industrial applications, Professional applications.

SECTION 7: Handling and storage

Industrial sector specific solutions : R1150 ETHYLENE — Not available.
Halocarbon R-14 (Tetrafluoromethane) — Not available.
Genetron AZ-50 (R-507) — Not available.

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
R1150 ETHYLENE Ethylene	**NAOSH (Ireland, 5/2021). Oxygen Depletion [Asphyxiant].** **Notes: Advisory Occupational Exposure Limit Values (OELVs)** OELV-8hr: 200 ppm 8 hours.

Biological exposure indices

None known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

SECTION 8: Exposure controls/personal protection

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state :	R1150 ETHYLENE	Gas.
	Halocarbon R-14 (Tetrafluoromethane)	Gas. [Liquefied gas.]
	Genetron AZ-50 (R-507)	Gas.
Colour :	R1150 ETHYLENE	Colourless.
	Halocarbon R-14 (Tetrafluoromethane)	Colourless.
	Genetron AZ-50 (R-507)	Clear. / Colourless.
Odour :	R1150 ETHYLENE	Musty
	Halocarbon R-14 (Tetrafluoromethane)	Odourless.
	Genetron AZ-50 (R-507)	Ethereal. [Slight]
Odour threshold :	R1150 ETHYLENE	17 to 959 ppm
	Halocarbon R-14 (Tetrafluoromethane)	Not available.
	Genetron AZ-50 (R-507)	Not available.
Melting point/freezing point :	R1150 ETHYLENE	-169.4°C
	Halocarbon R-14 (Tetrafluoromethane)	-183.6°C
	Genetron AZ-50 (R-507)	Not applicable.
Initial boiling point and boiling range :	R1150 ETHYLENE	-103.68°C
	Halocarbon R-14 (Tetrafluoromethane)	-127.8°C
	Genetron AZ-50 (R-507)	-46.7°C
Flammability :	R1150 ETHYLENE	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Slightly flammable in the presence of the following materials or conditions: oxidising materials.
	Halocarbon R-14 (Tetrafluoromethane)	Not available.
	Genetron AZ-50 (R-507)	Not available.
Upper/lower flammability or explosive limits :	R1150 ETHYLENE	Lower: 2.7% Upper: 36%
	Halocarbon R-14 (Tetrafluoromethane)	Not available.
	Genetron AZ-50 (R-507)	Not available.

SECTION 9: Physical and chemical properties

Flash point :

R1150 ETHYLENE	Closed cup: -136°C [Cleveland]
Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
Genetron AZ-50 (R-507)	Not applicable.

Auto-ignition temperature :

R1150 ETHYLENE	490°C
Halocarbon R-14 (Tetrafluoromethane)	>1100°C
Genetron AZ-50 (R-507)	>750°C

Decomposition temperature :

R1150 ETHYLENE	Not available.
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	Not available.

pH :

R1150 ETHYLENE	Not applicable.
Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
Genetron AZ-50 (R-507)	Not applicable.

Viscosity :

R1150 ETHYLENE	Not applicable.
Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
Genetron AZ-50 (R-507)	Not applicable.

Solubility(ies) :

Media	Result
R1150 ETHYLENE	
water	Insoluble
Halocarbon R-14 (Tetrafluoromethane)	
water	Insoluble
Genetron AZ-50 (R-507)	
water	Insoluble

Partition coefficient: n-octanol/water :

R1150 ETHYLENE	1.13 [OECD 107]
Halocarbon R-14 (Tetrafluoromethane)	1.18
Genetron AZ-50 (R-507)	1.48

Vapour pressure :

R1150 ETHYLENE	>101.3 kPa (>760 mm Hg)
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	1061.1 kPa (7959 mm Hg) 2529 kPa (18969 mm Hg) [54.4 °C]

Evaporation rate :

R1150 ETHYLENE	Not available.
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	>1 (CCl_4 = 1 = 1)

Relative density :

R1150 ETHYLENE	0.978
Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
Genetron AZ-50 (R-507)	1.07

Vapour density :

R1150 ETHYLENE	0.98 [Air = 1]
Halocarbon R-14 (Tetrafluoromethane)	3.04 [Air = 1]
Genetron AZ-50 (R-507)	3.43 [Air = 1]

Explosive properties :

R1150 ETHYLENE	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Slightly explosive in the presence of the following materials or conditions: oxidising materials.
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	Not available.

SECTION 9: Physical and chemical properties

Oxidising properties :

R1150 ETHYLENE	Not available.
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	Not available.

Particle characteristics

Median particle size :

R1150 ETHYLENE	Not applicable.
Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
Genetron AZ-50 (R-507)	Not applicable.

9.2 Other information

Physical/chemical properties comments : R1150 ETHYLENE: Gas density: 1.261 kg/m3 (0°C)

SECTION 10: Stability and reactivity

10.1 Reactivity :

R1150 ETHYLENE	No specific test data related to reactivity available for this product or its ingredients.
Halocarbon R-14 (Tetrafluoromethane)	No specific test data related to reactivity available for this product or its ingredients.
Genetron AZ-50 (R-507)	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability :

R1150 ETHYLENE	The product is stable.
Halocarbon R-14 (Tetrafluoromethane)	The product is stable.
Genetron AZ-50 (R-507)	The product is stable.

10.3 Possibility of hazardous reactions :

R1150 ETHYLENE	Under normal conditions of storage and use, hazardous reactions will not occur.
Halocarbon R-14 (Tetrafluoromethane)	Under normal conditions of storage and use, hazardous reactions will not occur.
Genetron AZ-50 (R-507)	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid :

R1150 ETHYLENE	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.
Halocarbon R-14 (Tetrafluoromethane)	Do not allow gas to accumulate in low or confined areas.
Genetron AZ-50 (R-507)	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.

10.5 Incompatible materials :

R1150 ETHYLENE	May react or be incompatible with oxidising materials.
Halocarbon R-14 (Tetrafluoromethane)	metals, Al (powder), Zn, Be
Genetron AZ-50 (R-507)	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products :

R1150 ETHYLENE	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Halocarbon R-14 (Tetrafluoromethane)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Genetron AZ-50 (R-507)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	:	R1150 ETHYLENE	Routes of entry anticipated: Inhalation.
		Halocarbon R-14 (Tetrafluoromethane)	Routes of entry anticipated: Inhalation.
		Genetron AZ-50 (R-507)	Routes of entry anticipated: Inhalation.

Potential acute health effects

Inhalation	:	R1150 ETHYLENE	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
		Halocarbon R-14 (Tetrafluoromethane)	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
		Genetron AZ-50 (R-507)	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Ingestion	:	R1150 ETHYLENE	As this product is a gas, refer to the inhalation section.
		Halocarbon R-14 (Tetrafluoromethane)	Ingestion of liquid can cause burns similar to frostbite.
		Genetron AZ-50 (R-507)	As this product is a gas, refer to the inhalation section.
Skin contact	:	R1150 ETHYLENE	Contact with rapidly expanding gas may cause burns or frostbite.
		Halocarbon R-14 (Tetrafluoromethane)	Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
		Genetron AZ-50 (R-507)	Contact with rapidly expanding gas may cause burns or frostbite.
Eye contact	:	R1150 ETHYLENE	Contact with rapidly expanding gas may cause burns or frostbite.
		Halocarbon R-14 (Tetrafluoromethane)	Liquid can cause burns similar to frostbite.
		Genetron AZ-50 (R-507)	Contact with rapidly expanding gas may cause burns or frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Inhalation	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	No specific data.
		Genetron AZ-50 (R-507)	No specific data.
Ingestion	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	Adverse symptoms may include the following: frostbite
		Genetron AZ-50 (R-507)	No specific data.
Skin contact	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	Adverse symptoms may include the following: frostbite
		Genetron AZ-50 (R-507)	No specific data.
Eye contact	:	R1150 ETHYLENE	No specific data.
		Halocarbon R-14 (Tetrafluoromethane)	Adverse symptoms may include the following: frostbite
		Genetron AZ-50 (R-507)	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	R1150 ETHYLENE	No known significant effects or critical hazards.
		Halocarbon R-14 (Tetrafluoromethane)	No known significant effects or critical hazards.
		Genetron AZ-50 (R-507)	No known significant effects or critical hazards.
Carcinogenicity	:	R1150 ETHYLENE	No known significant effects or critical hazards.
		Halocarbon R-14 (Tetrafluoromethane)	No known significant effects or critical hazards.
		Genetron AZ-50 (R-507)	No known significant effects or critical hazards.
Mutagenicity	:	R1150 ETHYLENE	No known significant effects or critical hazards.
		Halocarbon R-14 (Tetrafluoromethane)	No known significant effects or critical hazards.
		Genetron AZ-50 (R-507)	No known significant effects or critical hazards.
Reproductive toxicity	:	R1150 ETHYLENE	No known significant effects or critical hazards.
		Halocarbon R-14 (Tetrafluoromethane)	No known significant effects or critical hazards.
		Genetron AZ-50 (R-507)	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

R1150 ETHYLENE	Not available.
Halocarbon R-14 (Tetrafluoromethane)	Not available.
Genetron AZ-50 (R-507)	Adverse symptoms may include the following: heartbeat irregularity (arrhythmia).

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
R1150 ETHYLENE Ethylene	1.13	-	low
Halocarbon R-14 (Tetrafluoromethane) carbon tetrafluoride	1.18	-	low
Genetron AZ-50 (R-507) Genetron AZ-50 (R-507)	1.48	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
R1150 ETHYLENE Ethylene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Halocarbon R-14 (Tetrafluoromethane) carbon tetrafluoride	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

This product has the potential to cause adverse ozone depletion effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3363	UN3363	UN3363
14.2 UN proper shipping name	DANGEROUS GOODS IN APPARATUS	DANGEROUS GOODS IN APPARATUS	Dangerous goods in apparatus
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID : **Limited quantity** 0
Special provisions 301, 672

IMDG : **Emergency schedules** F-A, _S-P_
Special provisions 301

IATA : **Quantity limitation** Passenger and Cargo Aircraft: Packaging instructions: See 962. Cargo Aircraft Only: Packaging instructions: See 962. Limited Quantities - Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.
Special provisions A48, A107

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

SECTION 15: Regulatory information

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not listed.

Label	:	R1150 ETHYLENE	Not applicable.
		Halocarbon R-14 (Tetrafluoromethane)	Not applicable.
		Genetron AZ-50 (R-507)	Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

Category
R1150 ETHYLENE P2 **Genetron AZ-50 (R-507)** P2

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Ingredient name	Status
Genetron AZ-50 (R-507)	
HFC-125	Annex F, Group I
HFC-143a	Annex F, Group I

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Eurasian Economic Union	:	**Russian Federation inventory**: All components are listed or exempted.

SECTION 15: Regulatory information

Japan : **Japan inventory (CSCL)**: All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : All components are listed or exempted.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : All components are listed or exempted.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
R1150 ETHYLENE	
Flam. Gas 1A, H220	On basis of test data
Press. Gas (Comp.), H280	On basis of test data
Halocarbon R-14 (Tetrafluoromethane)	
Press. Gas (Liq.), H280	On basis of test data
Genetron AZ-50 (R-507)	
Flam. Gas 1A, H220	Calculation method
Press. Gas (Comp.), H280	On basis of test data

Full text of abbreviated H statements

R1150 ETHYLENE	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
Halocarbon R-14 (Tetrafluoromethane)	
H280	Contains gas under pressure; may explode if heated.
Genetron AZ-50 (R-507)	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

Full text of classifications [CLP/GHS]

Preconditioner Unit_temperature -90C

SECTION 16: Other information

R1150 ETHYLENE	
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Halocarbon R-14 (Tetrafluoromethane)	
Press. Gas (Liq.)	GASES UNDER PRESSURE - Liquefied gas
Genetron AZ-50 (R-507)	
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas

Date of issue/ Date of revision : 04/04/2023

Date of previous issue : No previous validation

Version : 1

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