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

1.1 Product identifier				
Product name:	C2HF5 30,2383 %;CH2F2 69,7617 %			
Trade name:	R 410A, Freon™ 410A			
Other Name:	R410A, HFC-125 50 % (w/w); HFC-32 50 % (w/w)			
1.2 Relevant identified uses of the subs	stance or mixture and uses advised against			
Identified uses:	Industrial and professional. Perform risk assessment prior to use. Refrigerant.			
Uses advised against	Consumer use.			
1.3 Details of the supplier of the safety	data sheet			
Supplier Linde Gas AB	Telephone: +46 8 7069500			
Rättarvägen 3, 169 68 Solna, Swe				
E-mail: sds.ren@linde.com				
1.4 Emergency telephone number: Poise	son center: 020-99 60 00 (24 h). Emergency number: 112			
SECTION 2: Hazards identification				
2.1 Classification of the substance or mixture				
	tion (EC) No 1272/2008 as amended.			
Classification according to Regulation				
Classification according to Regulati Physical Hazards	tion (EC) No 1272/2008 as amended. Liquefied gas H280: Contains gas under pressure; may explode if			
Classification according to Regulati Physical Hazards Gases under pressure	tion (EC) No 1272/2008 as amended. Liquefied gas H280: Contains gas under pressure; may explode if			

H280: Contains gas under pressure; may explode if heated.



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Precautionary Statements

Prevention:	None.	
Response:	None.	
Storage:	P403: Store in a well-ventilated	place.
Disposal:	None.	
Supplemental label informa		uorinated greenhouse gases centrations.

2.3 Other hazards:

Contact with evaporating liquid may cause frostbite or freezing of skin.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Chemical formula	Concentration	CAS-No.		REACH Registration No.	Notes
Pentafluoroethane	C2HF5	30,2383%	354-33-6	206-557-8	01-2119485636-25	#
Difluoromethane	CH2F2	69,7617%	75-10-5	200-839-4	01-2119471312-47	

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classificati	on	Notes
Pentafluoroethane	CLP:	Press. Gas Liquef. Gas;H280	
Difluoromethane	CLP:	Press. Gas Liquef. Gas;H280, Flam. Gas 1;H220	

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.



	CZHF5 50,2565 %;CHZFZ 69,7617 %	
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SECTION 4: First aid measures		
General:	In high concentrations may cause asphyxiation mobility/consciousness. Victim may not be awa to uncontaminated area wearing self contained warm and rested. Call a doctor. Apply artificial r	are of asphyxiation. Remove victim I breathing apparatus. Keep victim
4.1 Description of first aid measure	25	
Inhalation:	In high concentrations may cause asphyxiation mobility/consciousness. Victim may not be awa to uncontaminated area wearing self contained warm and rested. Call a doctor. Apply artificial r	are of asphyxiation. Remove victim I breathing apparatus. Keep victim
Eye contact:	Rinse the eye with water immediately. Remove to do. Continue rinsing. Flush thoroughly with v immediate medical assistance. If medical assist flush an additional 15 minutes.	vater for at least 15 minutes. Get
Skin Contact:	Contact with evaporating liquid may cause fros	tbite or freezing of skin.
Ingestion:	Ingestion is not considered a potential route of	exposure.
4.2 Most important symptoms and effects, both acute and delayed:	Respiratory arrest. Contact with liquefied gas ca rapid evaporative cooling.	an cause damage (frostbite) due to
4.3 Indication of any immediate m	edical attention and special treatment needed	
, Hazards:	Respiratory arrest. Contact with liquefied gas ca rapid evaporative cooling.	an cause damage (frostbite) due to
Treatment:	Thaw frosted parts with lukewarm water. Do no medical advice/attention.	ot rub affected area. Get immediate
SECTION 5: Firefighting measure	5	
General Fire Hazards:	Heat may cause the containers to explode.	
5.1 Extinguishing media Suitable extinguishing media:	Material will not burn. In case of fire in the surro extinguishing agent.	oundings: use appropriate
Unsuitable extinguishing media:	None.	
5.2 Special hazards arising from th substance or mixture:	e Fire or excessive heat may produce hazardous	decomposition products.



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Hazardous Combustion Products:		If involved in a fire the following toxic and/or co by thermal decomposition: Carbon oxides fluoro ; Carbonyl difluoride	
5.3 Advice for firef Special fire figl procedures:	5	In case of fire: Stop leak if safe to do so. Continue position until container stays cool. Use extinguis the source of the fire or let it burn out.	
Special protective equipment for fire-fighters:		Firefighters must use standard protective equipr coat, helmet with face shield, gloves, rubber boo Guideline: EN 469 Protective clothing for firefigh for protective clothing for firefighting. EN 15090 Protective gloves for firefighters. EN 443 Helmet other structures. EN 137 Respiratory protective of circuit compressed air breathing apparatus with testing, marking.	ots, and in enclosed spaces, SCBA. Iters. Performance requirements Footwear for firefighters. EN 659 ts for fire fighting in buildings and devices - Self-contained open-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Evacuate area. Provide adequate ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. EN 137 Respiratory protective devices - Self-contained open- circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.
6.2 Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
6.3 Methods and material for containment and cleaning up:	Provide adequate ventilation.
6.4 Reference to other sections:	Refer to sections 8 and 13.



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SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Damaged valves should be reported immediately to the supplier Close container is disconnected from equipment. Keep container valve outlets clean and free from contaminates particularly oil and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.
7.2 Conditions for safe storage, including any incompatibilities:	Containers should not be stored in conditions likely to encourage corrosion. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.
7.3 Specific end use(s):	None.



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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Cł	nemical name	Туре	Exposure Limit	Values	Source
Pe	entafluoroethane	NGV	500 ppm	2.500	Sweden. Occupational Exposure Limit
				mg/m3	Values (2015)
		KTV	750 ppm	3.750	Sweden. Occupational Exposure Limit
				mg/m3	Values (2015)

DNEL-Values

Critical component	Туре	Value	Remarks		
Pentafluoroethane	Workers - Inhalation,	16444	Repeated dose toxicity		
	Systemic, long-term	mg/m3			
Difluoromethane	Workers - Inhalation,	7035	Repeated dose toxicity		
	Systemic, long-term	mg/m3			

PNEC-Values

Critical component	Туре	Value	Remarks
Pentafluoroethane	Aquatic (freshwater)	0,1 mg/l	-
	Sediment (freshwater)	0,6 mg/kg	-
Difluoromethane	Aquatic (freshwater)	0,142 mg/l	-
	Sediment (freshwater)	0,534	-
		mg/kg	

8.2 Exposure controls

controls:

Consider a work permit system e.g. for maintenance activities. Ensure adequate Appropriate engineering air ventilation. Oxygen detectors should be used when asphyxiating gases may be released. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Systems under pressure should be regularly checked for leakages. Preferably use permanent leak tight connections (eg. welded pipes). Do not eat, drink or smoke when using the product.

Individual protection measures, such as personal protective equipment

General information:	A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Keep self contained breathing apparatus readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Eye/face protection:	Safety eyewear, goggles or face-shield to EN166 should be used to avoid exposure to liquid splashes. Wear eye protection to EN 166 when using gases. Guideline: EN 166 Personal Eye Protection.



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Skin protectio Hand Protec		Wear working gloves while handling containers Guideline: EN 388 Protective gloves against me	
Body proteo	ction:	No special precautions.	
Other:		Wear safety shoes while handling containers Guideline: ISO 20345 Personal protective equip	ment - Safety footwear.
Respiratory P	rotection:	Not required.	
Thermal haza	rds:	No precautionary measures are necessary.	
Hygiene mea:	sures:	Specific risk management measures are not req hygiene and safety procedures. Do not eat, drin product.	
Environmental controls:	exposure	For waste disposal, see section 13 of the SDS.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	Gas
Form:	Liquefied gas
Color:	C2HF5: Colorless CH2F2: Colorless
Odor:	C2HF5: faint ethereal CH2F2: Odorless
Odor Threshold:	Odor threshold is subjective and is inadequate to warn of over exposure.
pH:	Not applicable.
Melting Point:	No data available.
Boiling Point:	-51,4 °C
Sublimation Point:	Not applicable.
Critical Temp. (°C):	72,1 °C
Flash Point:	Not applicable to gases and gas mixtures.
Evaporation Rate:	Not applicable to gases and gas mixtures.
Flammability (solid, gas):	Non-Flammable Gas
Flammability Limit - Upper (%):	Not applicable.
Flammability Limit - Lower (%):	Not applicable.
Vapor pressure:	1.657,4 kPa (25 °C)
Vapor density (air=1):	2,55 (calculated) (15 °C)



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Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Partition coefficient (n-octanol/water):	Not known.
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not known.
Viscosity	
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	Not applicable.
Oxidizing properties:	Not applicable.
9.2 Other information:	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No reactivity hazard other than the effects described in sub-section below.
10.2 Chemical Stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	None.
10.4 Conditions to avoid:	Open flames and high energy ignition sources. The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become flammable or reactive under certain conditions.
10.5 Incompatible Materials:	No reaction with any common materials in dry or wet conditions. Alkali metals. Alkali earth metals. Chemically-active metals (such as calcium, powdered aluminum, zinc, and magnesium)
10.6 Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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SECTION 11: Toxicological information General information: None. 11.1 Information on toxicological effects Acute toxicity - Oral Product Based on available data, the classification criteria are not met. Acute toxicity - Dermal Product Based on available data, the classification criteria are not met. Acute toxicity - Inhalation Based on available data, the classification criteria are not met. Product Repeated dose toxicity **Component Information** Pentafluoroethane NOAEL (Rat(Female, Male), Inhalation, 13 Weeks): >= 50.000 ppm(m) Inhalation Experimental result, Key study Difluoromethane NOAEL (Rat(Female, Male), Inhalation, 28 d): 49.500 ppm(m) Inhalation Experimental result, Supporting study Skin Corrosion/Irritation Product Based on available data, the classification criteria are not met. Serious Eye Damage/Eye Irritation Product Based on available data, the classification criteria are not met. **Respiratory or Skin Sensitization** Product Based on available data, the classification criteria are not met. Germ Cell Mutagenicity Product Based on available data, the classification criteria are not met. Carcinogenicity Product Based on available data, the classification criteria are not met. Reproductive toxicity Product Based on available data, the classification criteria are not met. Specific Target Organ Toxicity - Single Exposure Product Based on available data, the classification criteria are not met. Specific Target Organ Toxicity - Repeated Exposure Product Based on available data, the classification criteria are not met.



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Aspiration Haz Product	zard	Not applicable to gases and gas mixtures	
Other Relevar	nt Toxicity Informa	ation	
Difluoromethane		Cardiac sensitisation threshold limit >350000 ppm Beagle (dog)LOAEC	
		Cardiac sensitisation threshold limit 350000 ppm Beagle (dog)NOAEC	
		Light hydrocarbons like this one have been as abuse situations. Hypoxia or the injection of a these effects.	
Pentafluoroethan	e	Cardiac sensitisation threshold limit 100000 ppm Beagle (dog)NOAEC	
		Cardiac sensitisation threshold limit 75000 ppm Beagle (dog)LOAEC	
		Light hydrocarbons like this one have been as abuse situations. Hypoxia or the injection of a these effects. May produce irregular heart bea	adrenaline-like substances enhances
SECTION 12: Ecolog	gical information	Π	

12.1 Toxicity

Acute toxicity Product	No ecological damage caused by this product.
Acute toxicity - Fish Component Information Pentafluoroethane	LC 50 (Oncorhynchus mykiss, 96 h): 450 mg/l (semi-static) Remarks: Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study
Difluoromethane	LC 50 (Pimephales promelas, 96 h): 1.405 mg/l Remarks: QSAR QSAR, Supporting study



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	Y - Aquatic Inverte t Information roethane	EC 50 (Daphnia magna, 48 h): > 200 mg/l (Static) Rei	
Difluorom	ethane	supporting substance (structural analogue or surroga EC 50 (Daphnia magna, 48 h): 1.573 mg/l Remarks: C	
	ity - Aquatic Inver	tebrates	
Component Pentafluor	t Information Toethane	EC 50 (16 d): 12 mg/l	
Toxicity to Aq Component Pentafluor	t Information	EC 50 (Green Algae, 72 h): 142 mg/l	
Difluorom	ethane	EC 50 (Alga, 96 h): 142 mg/l	
12.2 Persistence a Product	nd Degradability	Not applicable to gases and gas mixtures	
Biodegradati Component Difluorome	t Information	5 % (28 d) Detected in water. Experimental result, Ke	ey study
12.3 Bioaccumulat Product	ive potential	The subject product is expected to biodegrade and is long periods in an aquatic environment.	not expected to persist for
12.4 Mobility in so Product	il	Because of its high volatility, the product is unlikely t pollution.	o cause ground or water
12.5 Results of PB1 assessment Product	「and vPvB	Not classified as PBT or vPvB.	



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12.6 Other adverse	12.6 Other adverse effects:				
Global Warmin	ng Potential	Global warming potential: 2.087,8 Contains fluorinated greenhouse gase quantities may contribute to the greenhouse e quantities, refer to container label.			
Component Pentafluor	Information oethane	<u>EU. F-Gases Subject to Emission Limits/Reportir</u> <u>517/2014/EU on FGGs</u> - Global warming potential: 3500 Annex 1: Fluo to in Point 1 of Article 2; Section 1:Hydrofluoroc	rinated greenhouse gases referred		
Difluorome	ethane	EU. F-Gases Subject to Emission Limits/Reportin 517/2014/EU on FGGs - Global warming potential: 675 Annex 1: Fluori in Point 1 of Article 2; Section 1:Hydrofluorocar	inated greenhouse gases referred to		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Avoid discharges to atmosphere. Do not discharge into any place where its accumulation could be dangerous. Refer to manufacturer or supplier for information on recovery or recycling.
Disposal methods:	Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.
<u>European Waste Codes</u> Container:	14 06 01*: chlorofluorocarbons, HCFC, HFC

SECTION 14: Transport information

ADR

••		
	14.1 UN Number:	UN 3163
	14.2 UN Proper Shipping Name:	LIQUEFIED GAS, N.O.S.(Difluoromethane, Pentafluoroethane)
	14.3 Transport Hazard Class(es)	
	Class:	2
	Label(s):	2.2
	Hazard No. (ADR):	20
	Tunnel restriction code:	(C/E)



		IF3 30,2383 %;CH2F2 69,7617 %	
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14.4 Packing Group:		-	
14.5 Environmental hazards:		Not applicable	
14.6 Special p	precautions for user:	_	
RID			
14.1 UN Number:		UN 3163	
14.2 UN Prop	er Shipping Name	LIQUEFIED GAS, N.O.S.(Difluoromet	hane, Pentafluoroethane)
	t Hazard Class(es)		
Class:		2	
Label(s)	:	2.2	
14.4 Packing		-	
	nental hazards:	Not applicable	
14.6 Special p	precautions for user:	-	
IMDG			
14.1 UN Num	ber:	UN 3163	
14.2 UN Prop	er Shipping Name:	LIQUEFIED GAS, N.O.S.(Difluoromet	hane, Pentafluoroethane)
	t Hazard Class(es)		
Class:		2.2	
Label(s)		2.2	
EmS No.	:	F-C, S-V	
14.4 Packing		-	
	nental hazards:	Not applicable	
14.6 Special p	precautions for user:	-	
IATA			
14.1 UN Num	her.	UN 3163	
	hipping Name:	Liquefied gas, n.o.s.(Difluorometha	ane Pentafluoroethane)
	t Hazard Class(es):		
Class		2.2	
Labe	l(s):	2.2	
14.4 Packing	Group:	_	
	nental hazards:	Not applicable	
	precautions for user:	-	
	nformation		
	enger and cargo aircraft:	Allowed.	
Carg	o aircraft only:	Allowed.	
14.7 Transpo	ort in bulk according to Anr	ex II of MARPOL and the IBC Code: Not	t applicable
Addition	nal identification:	Avoid transport on vehicles where	the load space is not separated from
			whicle driver is aware of the potential
			at to do in the event of an accident or

adequate air ventilation.

hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure



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SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, as amended.:Not applicable

National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information:

Not relevant.



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	24.03.2020	Various sources of data have been used in the compi- but are not exclusive to: Agency for Toxic Substances and Diseases Registry ((http://www.atsdr.cdc.gov/). European Chemical Agency: Guidance on the Compil- European Chemical Agency: Information on Registered http://apps.echa.europa.eu/registered/registered European Industrial Gases Association (EIGA) Doc. 16 guide. International Programme on Chemical Safety (http:/ ISO 10156:2010 Gases and gas mixtures - Determin oxidizing ability for the selection of cylinder valve ou Matheson Gas Data Book, 7th Edition. National Institute for Standards and Technology (NIS	15/16 ilation of this SDS, they include ATSDR) ation of Safety Data Sheets. ed Substances -sub.aspx#search 59 Classification and Labelling '/www.inchem.org/) ation of fire potential and utlets.
		Number 69. The ESIS (European chemical Substances 5 Information former European Chemicals Bureau (ECB) ESIS (http:// The European Chemical Industry Council (CEFIC) ERIC United States of America's National Library of Medici TOXNET (http://toxnet.nlm.nih.gov/index.html) Threshold Limit Values (TLV) from the American Conf Industrial Hygienists (ACGIH). Substance specific information from suppliers. Details given in this document are believed to be con	//ecb.jrc.ec.europa.eu/esis/). ards. ine's toxicology data network erence of Governmental

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.			Classification procedure	
Gases under pressure, Lic	uefied gas			
Wording of the H-statements			<i>a</i>	
	H220 H280		flammable gas. as under pressure; may explode if heated.	
Classification according to Re	egulation (EC) No 1	272/2008 as a	amended.	
	Press. Gas L	Press. Gas Liq. Gas, H280		
Other information:	compatibili Ensure all n taken in the	Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. ASHRAE: A1		
Last revised date: Disclaimer:	This informa correct. Thi	24.03.2020 This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.		



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