

Printing date 03/12/2015 Ver	sion 7	Reviewed on 03/12/2015
1 Identification of substance		
· Product details		
· Trade name: Argoshield 25C		
• Article number: 302-02-0001		
· Creation date: 04/25/2008		
· Manufacturer/Supplier:		
Linde Canada Limited	Linde	
5860 Chedworth Way	575 Mountain Avenue	
Mississauga, Ontario L5R 0A2	Murray Hill, NJ 07974	
Telephone (905) 501-1700	Telephone (908) 464-8100	
24-HOUR EMERGENCY TELEPHONE NUMBER	R: 24-HOUR EMERGENCY	TELEPHONE NUMBER
: (905) 501-0802	CHEMTREC (800) 424-9300	OR .
	Linde National Operations Ce	nter (800) 232-4726 .
Pse ensure that this MSDS is received by the approp	riate person.	
· Information department: Customer Service Centre	e: 1-866-385-5349	

2 Composition/Data on components

· Chemical characterization

· Dangerous components: Void

· Chemical	components
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7440-37-1 Argon	
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124-38-9 Carbon Dioxide

3 Hazards identification

- · Hazard description:
- · WHMIS-symbols:
- A Compressed gas



· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire $= 0$
	0	Reactivity $= 0$

 \cdot NFPA ratings (scale 0 - 4)



\cdot Information pertaining to particular dangers for man and environment: Not applicable.

· Classification system:

The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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60 - 100% 23 - <60%

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· GHS label elements Void

4 First aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for at least 15 minutes under running water. Then consult a doctor.
- · After swallowing: Not applicable.

5 Fire fighting measures

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

 \cdot Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventillation.

Stop leak - ONLY if possible to do so without risk.

- Measures for environmental protection: Prevent seepage into sewage system, workpits and/or cellars.
- Measures for cleaning/collecting: Ensure adequate ventillation.
- Additional information: No dangerous substances are released.

7 Handling and storage

· Handling:

- · Information for safe handling:
- Handle with care. Avoid jolting, friction, and impact.

Use only in well ventilated areas.

Store container in a secured area. Limit access to authorized personnel only. Report any incidents involving thefts, misuse, or inventory shortages to law enforcement and the supplier. Security shall be provided in accordance with all local, state (provincial) and federal regulations.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

· Storage:

· Requirements to be met by storerooms and receptacles:

Do not expose cylinder to temperatures higher than 50°C (122 °F)

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 125°F (52°C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time.

 \cdot Information about storage in one common storage facility:

Sources of ignition should be removed from storage area.

• Further information about storage conditions:

Store in accordance with local fire code and/or building code or any pertaining regulations.

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0.17	
8 Exposu	re controls and personal protection
	al information about design of technical systems:
	local ventillation.
	owers and eyewash stations should be nearby. ents with limit values that require monitoring at the workplace:
-	1 Argon (60 - 100%)
	ble asphyxiant
-	Carbon Dioxide (23 - <60%)
	t-term value: 15000 ppm
	y-term value: 5000 ppm
	t-term value: 54.000 mg/m ³ , 30.000 ppm
Long	g-term value: 9.000 mg/m ³ , 5.000 ppm
Addition	al information: The lists that were valid during the creation were used as basis.
· Personal	protective equipment:
	protective and hygienic measures:
	e clothing and PPE should be kept free of oil and grease, generally in clean condition
	Id be inspected and maintained regularly to retain effectiveness.
	g equipment: sphere-supplying respirators (e.g. supplied-air: demand, pressure-demand, or continuous-flow or self-
	I breathing apparatus: demand or pressure-demand or combination supplied-air with auxiliary self-
	air supply atmosphere-supplying respirator) in case of insufficient ventilation.
· Protectio	on of hands:
m	
m ⁿ i/	Protective gloves.
· Material	
	tion of the suitable gloves does not only depend on the material, but also on further marks of quality s from manufacturer to manufacturer.
	ection: Safety glasses
	tection: Leather gloves when welding, cutting or brazing
0 Dhysics	land shamisal monanties
9 Filysica	l and chemical properties
· General 1	Information
Form:	Gaseous.
Color:	Colorless
Odor:	Odorless
	n condition
Boiling	point/Boiling range: -185°C
· Flash poi	int: Not applicable.

• Danger of explosion: Product does not present an explosion hazard.

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Materials to be avoided:

· Dangerous reactions No dangerous reactions known.

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· Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
- · LD/LC50 values that are relevant for classification: LC50 None available
- · Primary irritant effect:
- on the skin: No irritating effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

 \cdot Additional ecological information:

· General notes: Generally not hazardous for water

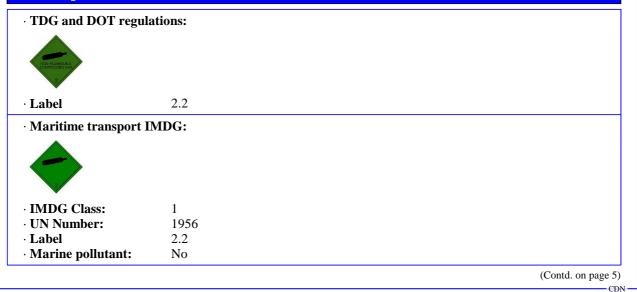
13 Disposal considerations

- · Product:
- · Recommendation: Unused product should be returned to vendor.
- · Uncleaned packagings:
- · Recommendation:

Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.

• Recommended cleansing agent: None applicable.

14 Transport information



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Proper shinning name	: COMPRESSED GAS, N.O.S.	(Contd. c
Air transport ICAO-7	I and IA IA-DGK:	
	1	
ICAO/IATA Class: UN/ID Number:	1 1956	
Label	2.2	
	e: COMPRESSED GAS, N.O.S.	
UN "Model Regulatio	n": UN1956, COMPRESSED GAS, N.O.S., 2A	. (2.2)
Regulations		
Sara		
	v hazardous substances):	
None of the ingredient		
Section 313 (Specific t	oxic chemical listings):	
None of the ingredients		
TSCA (Toxic Substan	ces Control Act):	
All ingredients are liste		
Proposition 65		
Chemicals known to c	ause cancer:	
None of the ingredients	is listed.	
Chemicals known to c	ause reproductive toxicity for females:	
None of the ingredients	is listed.	
Chemicals known to c	ause reproductive toxicity for males:	
None of the ingredients	is listed.	
Chemicals known to c	ause developmental toxicity:	
None of the ingredients	is listed.	
Cancerogenity catego	ries	
EPA (Environmental)		
None of the ingredients		
NTP (National Toxico		
None of the ingredients		
	t Value established by ACGIH)	
None of the ingredients	is listed.	
	Institute for Occupational Safety and Health)	
None of the ingredients		
	nal Safety & Health Administration)	
None of the ingredients		
Canadian substance li	-	
Canadian Domestic Su		
All ingredients are liste		
•	Disclosure list (limit 0.1%)	
None of the ingredients	1s listed.	

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· Canadian Ingredient Disclosure list (limit 1%)

124-38-9 Carbon Dioxide

· Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials. The product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

· Safety phrases:

Keep in a cool place.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Please refer to the section 3 for NFPA and HMIS Hazard Codes.

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GENERAL DISCLAIMER

For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between Linde Inc. (or any of its affiliates and subsidiaries) and the purchaser.

· Department issuing MSDS: Customer Service Centre: 1-866-385-5349

· Abbreviations and Acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Service (Division of the American Chemical Society) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances GHS: Globally Harmonized System of Classification and Labelling of Chemicals HMIS: Hazardous Material Identification System IATA: International Air Transportation Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transportation Association" ICAO: International Civil Aviation Association ICAO-TI: Technical Instructions by the "International Civil Aviation Organization (ICAO) IMDG: International Marine Code for Dangerous Goods WHIMS: Workplace Hazardous Material Information System LC50: Lethal Concentration, 50 Percent LD50: Lethal Dose, 50 Percent EL: ExposureLlimit per ACGIH TLV EV: Permissible Exposure Limit per OSHA N/A: Not Applicable GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

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