

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	Carbon Dioxide (Refrigerated)
CAS No.	124-696-9
EC No.	204-696-9
REACH Registration No.	Not applicable (exempt)
1.2 Relevant identified uses of the substa	ance or mixture and uses advised against
Identified Use(s)	Industrial and professional use.
Uses Advised Against	Medical and any use other than the above or as advised by the supplier.
1.3 Details of the supplier of the safety da	ata sheet
Supplier	
Company Identification	Blended Products Limited
Address of Supplier	Elsham Wold Industrial Estate
	Brigg
	North Lincolnshire
Postal code	DN20 0SP
Telephone:	+44 (0) 1652 680555
Fax	Not known.
E-mail	technical@blendedproducts.com
1.4 Emergency telephone number	
Emergency Phone No.	+44 (0) 1652 680555 (please use 'Option 4' for 24hr chemical/stock emergency
	number)
Contact	Please see above.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 and Press. Gas (Ref. Liq.) :Contains refrigerated gas; may cause cryogenic burns or UK SI 2020/1567 injury.

2.2 Label elements	
	According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567
Product Name	Carbon Dioxide (Refrigerated)
Hazard Pictogram(s)	GHS04
Signal Word(s)	Warning



Hazard Statement(s)	H281: Contains refrigerated gas; may cause cryogenic burns or injury.
Precautionary Statement(s)	P282: Wear cold insulating gloves and either face shield or eye protection. P336+P315: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention. P403: Store in a well-ventilated place.
2.3 Other hazards	None known.
2.4 Additional Information	For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

HAZARDOUS	CAS No.	EC No. / Registration	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		number(s)			Pictogram(s)
Carbon dioxide, (refrigerated	124-38-9	204-696-9	100	Press. Gas (Ref. Liq.) H281	GHS04
liquid)					

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Treat symptomatically.
Skin Contact	Get immediate medical advice/attention. Thaw frosted parts with lukewarm water.
	Do not rub affected area.
Eye Contact	Treat symptomatically.
Ingestion	Treat symptomatically.
4.2 Most important symptoms and effects, both acute and delayed	
	None anticipated. Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media		
Suitable Extinguishing media	As appropriate for surrounding fire.	
Unsuitable extinguishing media	None.	
5.2 Special hazards arising from the substance or mixture		

Explosion risk. Explosion risk.



5.3 Advice for firefighters

As appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures		
	Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid	
	direct contact.	
6.2 Environmental precautions		
	Do not allow to enter drains, sewers or watercourses.	
6.3 Methods and material for containment and cleaning up		
	Allow small spillages to evaporate provided there is adequate ventilation.	
6.4 Reference to other sections		
	See Also Section 8, 13.	

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear cold insulating gloves and either face shield or eye protection.

7.2 Conditions for safe storage, including any incompatibilities

	Store in a well-ventilated place.
Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.
7.3 Specific end use(s)	

Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exp	osure Limits					
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Carbon dioxide	124-38-9	5000	9150	15000	27400	

Region

Source

United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark

iik

8.2 Exposure controls

- 8.2.1. Appropriate engineering controls Ensure adequate ventilation.
- 8.2.2. Personal protection equipment

Notes



Eye Protection	Wear eye protection with side protection (EN166).
Skin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
Respiratory protection	Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
Thermal hazards	None known.

8.2.3. Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Gas (refrigerated liquid)
	Colour : colourless
Odour	Odourless
Odour threshold	Not applicable
pH	3.2 - 3.7 The pH of saturated CO2 solutions varies from 3.7 at 101 kPa (1 atm) to
	3.2 at 2370 kPa (23.4 atm)
Melting point/freezing point	-56.6 °C
Initial boiling point	-78.5 °C
Sublimation point	-78.5 °C
Critical temperature	31.0 °C
Flash Point	Not applicable.
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive	Not applicable
limits	
Vapour pressure	45.1 bar (10 °C)
Vapour density	1.522 (21 °C)
Relative density	1.512 (-56.6 °C)
Solubility(ies)	Solubility (Water) : 2.900 mg/l (25 °C)
	Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	0.83
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Dynamic viscosity	0.07 mPa.s (20 °C)
Explosive properties	Not applicable
Oxidising properties	Not applicable
9.2 Other information	
	Molecular weight: 44.01 g/mol (CO2)



Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	
		None anticipated.
10.2	Chemical Stability	
		Stable under normal conditions.
10.3	Possibility of hazardous reactions	
		No hazardous reactions known if used for its intended purpose.
10.4	Conditions to avoid	
		Keep away from heat and direct sunlight.
10.5	Incompatible materials	
		Not known.
10.6	Hazardous decomposition products	

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified.
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Not classified.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.
11.2 Other information	

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates Toxicity - Fish Low toxicity to invertebrates. Low toxicity to fish.



Toxicity Algoo	Low toxicity to alogo		
Toxicity - Algae	Low toxicity to algae.		
Toxicity - Sediment Compartment	Not classified.		
Toxicity - Terrestrial Compartment	Not classified.		
12.2 Persistence and degradability			
	Not known.		
12.3 Bioaccumulative potential			
	Not known.		
12.4 Mobility in soil			
	Not known.		
12.5 Results of PBT and vPvB assessment			
	Not known.		
12.6 Other adverse effects			
	Not known.		
SECTION 13: DISPOSAL CONSIDERA	TIONS		
13.1 Waste treatment methods			
	Dispose at suitable refuse site.		
13.2 Additional Information			
	Disposal should be in accordance with local, state or national legislation.		
SECTION 14: TRANSPORT INFORMAT	ION		
SECTION 14: TRANSPORT INFORMAT	ION		
	ION		
14.1 UN number			
14.1 UN number UN No.	2187		
14.1 UN number UN No. 14.2 UN proper shipping name	2187		
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C/E

Tunnel Restriction Code



Special Provisions for Carriage -	V5
Packages	
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading	CV9 CV11 CV36
Unloading and Handling	
Special Provisions for Carriage -	S20
Operation	
ADR HIN	22
IMDG	
IMDG Class	2.2
Special Provisions	
Limited Quantities	120 ml
Excepted Quantities	E1
Mixed Packing Instructions for Packages	P203
Special Packing Provisions for Packages	
Packing Instructions for Portable Tanks	T75
Special Provisions for Portable Tanks	TP5
IMDG EMS	
	F-C, S-V
Stowage and Handling	Category D
Segregation	
Marine Pollutant	
ICAO/IATA	
ICAO/IATA IATA Proper Shipping Name	CARBON DIOXIDE, REFRIGERATED LIQUID
	CARBON DIOXIDE, REFRIGERATED LIQUID E1
IATA Proper Shipping Name	
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14.4 Packing group

Packing group

14.5 Environmental hazards



Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

The supplier does not supply this substance for bulk transport by vessel.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental re	gulations/legislation specific for the substance or mixture	
United Kingdom Regulations - Authorisa	tions and/or Restrictions On Use	
UK REACH Candidate List of Substances	s Not listed	
of Very High Concern for Authorisation		
UK REACH Authorisation List (Annex	Not listed	
XIV) list of substances subject to		
authorisation		
UK REACH Restrictions List (Annex XVII)	Not listed	
Restrictions on the manufacture, placing		
on the market and use of certain		
dangerous substances, mixtures and		
articles		
UK REACH Rolling Action Plan (RAP)	Not listed	
The Persistent Organic Pollutants	Not listed	
Regulations 2007 (SI 2007/3106) as		
amended		
The Ozone-Depleting Substances and	Not listed	
Fluorinated Greenhouse Gases		
(Amendment etc.) (EU Exit) Regulations		
2019 (SI 2019/583)		
The Prior Informed Consent (PIC)	Not listed	
Regulations concerning the export and		
import of hazardous chemicals		
SI2008/2108 as amended		
European Regulations - Authorisations a	nd/or Restrictions On Use	
Community Rolling Action Plan (CoRAP) Not listed		
15.2 Chemical Safety Assessment		
United Kingdom	A REACH chemical safety assessment has not been carried out.	

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)





Hazard classification	Press. Gas (Ref. Liq.) : Gases under pressure, Refrigerated liquefied gas
Hazard Statement(s)	H281: Contains refrigerated gas; may cause cryogenic burns or injury.
Precautionary Statement(s)	P282: Wear cold insulating gloves and either face shield or eye protection. P336+P315: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention. P403: Store in a well-ventilated place.
Acronyms	ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Internediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
Key literature references and sources for data used to compile the SDS	r GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567
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