

# SAFETY DATA SHEET Carbon Monoxide Aerosol

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

### 1.1. Product identifier

Product name

Carbon Monoxide Aerosol

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

Identified uses	Propellant Source

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

Supplier	Arctic Hayes Ltd
	Glover Way
	Leeds
	West Yorkshire
	LS11 5JP
	T+44 (0) 113 271 5245
	F+44 (0) 113 271 5779
	sales@arctic-hayes.com

## 1.4. Emergency telephone number

**Emergency telephone** +44 (0)113 271 5245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Classification	
Physical hazards	Aerosol 3 - H229
Health hazards	Not Classified
Environmental hazards	Not Classified
Human health	Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal. May cause suffocation.
Environmental	The product is not expected to be hazardous to the environment.
Physicochemical	Aerosol containers can explode when heated, due to excessive pressure build-up.
2.2. Label elements	
Signal word	Warning
Hazard statements	H229 Pressurised container: may burst if heated
Precautionary statements	<ul> <li>P251 Do not pierce or burn, even after use.</li> <li>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</li> <li>P102 Keep out of reach of children.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 Do not breathe vapour/spray.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P501 Dispose of contents/container in accordance with local regulations.</li> </ul>

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

3.2. Mixtures		
Nitrogen		60-100
CAS number: 7727-37-9	EC number: 231-783-9	
Classification		
Press. Gas, Compressed - H280		
CARBON MONOXIDE		<1
CAS number: 630-08-0	EC number: 211-128-3	REACH registration number: 01- 2119480165-39-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Gas 1 - H220	F+;R12 Repr. Cat. 1;R61 T;R23,R48/23	
Press. Gas, Compressed - H280		
Acute Tox. 3 - H331		
Repr. 1A - H360D		
STOT RE 1 - H372		

## **SECTION 4: First aid measures**

4.1. Description of first aid me	asures
General information	Move affected person to fresh air at once.
Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting.
Skin contact	Use suitable lotion to moisturise skin.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.
4.2. Most important symptoms	and effects, both acute and delayed
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
5.2. Special hazards arising from the substance or mixture	
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.

The product is not flammable.

### 5.3. Advice for firefighters

Protective actions during firefighting	Warn firefighters that aerosols are involved. Containers close to fire should be removed or cooled with water.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate area. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Monitor oxygen level. Ventilate the area.
6.2. Environmental precaution	<u>S</u>
Environmental precautions	Do not discharge into any place where its accumulation could be dangerous. Prevent further leakage or spillage if safe to do so.

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

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Do not spray on a naked flame or any incandescent material. Do not expose to temperatures exceeding 50°C/122°F.
7.2. Conditions for safe stora	age, including any incompatibilities
Storage precautions	Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Storage class	Compressed gas storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure Controls/personal protection	

### 8.1. Control parameters

# Occupational exposure limits CARBON MONOXIDE

Long-term exposure limit (8-hour TWA): WEL 30 ppm 35 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 200 ppm 232 mg/m<sup>3</sup> WEL = Workplace Exposure Limit

### 8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.
Personal protection	When using do not eat, drink or smoke.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Not relevant.
Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
If ventilation is inadequate, suitable respiratory protection must be worn. Self-containing breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen- deficient atmosphere. Air purifiers respirators will not provide protection. Users of breathing apparatus must be trained.

# **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

<u>· · · ·</u>	
Aerosol.	
Colourless.	
No characteristic odour.	
>100°C	
0.9669 (air = 1) Lighter or similar to air.	
Information given is applicable to the major ingredient.	
Not available.	
28 g/mol	
This product contains a maximum VOC content of 0 g/l.	
activity	
Stable at normal ambient temperatures and when used as recommended.	
Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous reactions	
Does not decompose when used and stored as recommended.	
Avoid heat, flames and other sources of ignition.	
Keep away from oxidising materials, heat and flames.	
10.6. Hazardous decomposition products	

I

# Carbon Monoxide Aerosol

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.
SECTION 11: Toxicological int	formation
11.1. Information on toxicologi	cal effects
Toxicological effects	Carbon monoxide : LC50 (1h) : 3760ppm - Species :Rat
Acute toxicity - oral ATE oral (mg/kg)	100,000.0
Acute toxicity - inhalation ATE inhalation (gases ppm)	350,000.0
ATE inhalation (vapours mg/l)	1,500.0
ATE inhalation (dusts/mists mg/l)	250.0
Inhalation	Gas or vapour displaces oxygen available for breathing (asphyxiant). Unconsciousness, possibly death.
Ingestion	No specific health hazards known.
Skin contact	Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Because of the product's quantity and composition, the health hazard is regarded as low. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Route of entry	Inhalation
Target organs	No specific target organs known.
Medical symptoms	Exposure to oxygen deficient atmosphere may cause the following symptoms: Dizziness. Nausea, vomiting.
SECTION 12: Ecological Inform	mation
Ecotoxicity	Not regarded as dangerous for the environment. The product is not expected to be hazardous to the environment.
12.1. Toxicity	
Toxicity	Not available.
12.2. Persistence and degradability	
Persistence and degradability	Not available.
12.3. Bioaccumulative potentia	al
Bioaccumulative potential	Not available.
12.4. Mobility in soil	
Mobility	Not known.
12.5. Results of PBT and vPvB assessment	

Results of PBT and vPvB assessment	Not available.	
12.6. Other adverse effects		
Other adverse effects	Not available.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
General information	Do not puncture or incinerate, even when empty.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
SECTION 14: Transport information		
General	This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.	
14.1. UN number		
UN No. (ADR/RID)	1950	
UN No. (IMDG)	1950	
UN No. (ICAO)	1950	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	AEROSOLS	
Proper shipping name (IMDG)	AEROSOLS	
Proper shipping name (ICAO)	AEROSOLS	
Proper shipping name (ADN)	AEROSOLS	
14.3. Transport hazard class(e	<u>s)</u>	
ADR/RID class	2.2	
ADR/RID label	2.2	
IMDG class	2.2	
ICAO class/division	2.2	
Transport labels		



# 14.4. Packing group

Not applicable.

# 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-D, S-U

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010.
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision comments	Supplemental information added.
Revision date	05/06/2015
Revision	1
SDS number	20836
SDS status	Approved.
Risk phrases in full	Not classified. R23 Toxic by inhalation. R25 Toxic if swallowed. R38 Irritating to skin. R41 Risk of serious damage to eyes. R50 Very toxic to aquatic organisms. R8 Contact with combustible material may cause fire.
Hazard statements in full	<ul> <li>H220 Extremely flammable gas.</li> <li>H229 Pressurised container: may burst if heated</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H331 Toxic if inhaled.</li> <li>H360D May damage the unborn child.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> </ul>

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