

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Weldshield 15

Reference number: 1400 Revision date: 22/12/2021 Issue date: 22/12/2021 Version: 1.0

Warning



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

1.1. Product identifier	
Trade name	: Weldshield 15
SDS no	: 1400
1.2. Relevant identified uses of the substance or	mixture and uses advised against
Relevant identified uses	: Industrial and professional use for chemical analysis, calibration, (routine) quality control, laboratory use, under controlled conditions.
Uses advised against	: Consumer use. Uses other than those listed above are not supported, contact your supplier for more information on other uses.
1.3. Details of the supplier of the safety data she	<u>et</u>
Company identification	: Irish Oxygen Co Ltd Waterfall Road T12 PP40 Cork - Ireland T 021-4541821 (Mon-Fri 08:30-17:30) www.solgroup.com sds@irishoxygen.com
E-Mail address (competent person)	: msds@sol.it
1.4. Emergency telephone number	
Emergency telephone number	: 021-4541821 (Mon-Fri 08:30-17:30)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1	
Physical hazards Gases under pressure :	Compressed gas H280
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/	2008 [CLP]
Hazard pictograms (CLP)	: GHS04
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP) - Storage	: P410+P403 - Protect from sunlight. Store in a well-ventilated place.
2.3. Other hazards	
	Asphyxiant in high concentrations. Not classified as PBT or vPvB. The substance/mixture has no endocrine disrupting properties.
Irish Oxygen Co I td	(English) Reference number: 1/00 1/0



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SECTION 3: Composition/information on ingredients

Not applicable

3.2. Mixtures

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Argon	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: REACH-no: *1	85	Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	15	Press. Gas (Liq.), H280

Full text of H- and EUH-statements: see section 16

Contains no other components or impurities which will influence the classification of the product.

*1: Listed in Annex IV / V REACH, exempted from registration.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid measures	
- Inhalation	 Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
- Skin contact	: Adverse effects not expected from this product.
- Eye contact	: Adverse effects not expected from this product.
- Ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and effe	cts, both acute and delayed
	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. See section 11.
4.3. Indication of any immediate medica	al attention and special treatment needed
	None.
SECTION 5: Firefighting measure	res
5.1. Extinguishing media	
- Suitable extinguishing media	: Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire.
- Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the su	ubstance or mixture
Specific hazards	: Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.
Reactivity	: None.
5.3. Advice for firefighters	
Specific methods	 Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment	and emergency procedures
For non-emergency personnel	: Act in accordance with local emergency plan. Try to stop release.
	Evacuate area.
	Ensure adequate air ventilation.
	Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
	Stay upwind.
For emergency responders	See section 8 of the SDS for more information on personal protective equipmentWear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
	Oxygen detectors should be used when asphyxiating gases may be released. See section 5.3 of the SDS for more information.
6.2. Environmental precautions	
	Try to stop release.
6.3. Methods and material for containment and c	leaning up
	Ventilate area.
6.4. Reference to other sections	
	See also sections 8 and 13.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Safe use of the product	: The product must be handled in accordance with good industrial hygiene and safety procedures.
	Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations.
	Ensure the complete gas system was (or is regularily) checked for leaks before use. Do not smoke while handling product.
	Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
	Avoid suck back of water, acid and alkalis. Do not breathe gas.
	Avoid release of product into work area.



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Safe handling of the gas receptacle :	Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. 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. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier.
	Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
	Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the content of the container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including any inco	mpatibilities
	Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.
7.3. Specific end use(s)	
	None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Carbon dioxide	
IOEL TWA	9000 mg/m ³	
IOEL TWA [ppm]	5000 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Ireland - Occupational Exposure Limits		
Local name	Carbon dioxide	
OEL TWA [1]	9000 mg/m ³	
OEL TWA [2]	5000 ppm	
OEL STEL	27000 mg/m ³	
OEL STEL [ppm]	15000 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	



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Regulatory reference	Chemical Agents Code of Practice 2020
Argon (7440-37-1)	
Ireland - Occupational Exposure Limits	
Local name	Argon
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
DNEL (Derived-No Effect Level)	: None available.
PNEC (Predicted No-Effect Concentration)	: None available.
8.2. Exposure controls	
8.2.1. Appropriate engineering controls	
	Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.
8.2.2. Individual protection measures, e.g. p	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
• Eye/face protection	The following recommendations should be considered:PPE compliant to the recommended EN/ISO standards should be selected.Wear safety glasses with side shields.
	PPE compliant to the recommended EN/ISO standards should be selected.
 Eye/face protection Skin protection Hand protection Other 	 PPE compliant to the recommended EN/ISO standards should be selected. Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications. Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk. Wear safety shoes while handling containers.
 Skin protection Hand protection 	 PPE compliant to the recommended EN/ISO standards should be selected. Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications. Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk.
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 Skin protection Hand protection Other Respiratory protection 	 PPE compliant to the recommended EN/ISO standards should be selected. Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications. Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk. Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with furface mask. When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
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		is one or more component(s) which have the following colour(s):
Ddour	Colourless. : Odourless.	
Odour threshold	: Odour threshol	d is subjective and inadequate to warn of overexposure.
ЪΗ	: Not applicable	for gases and gas mixtures.
Melting point / Freezing point	: Not applicable	for gases and gas mixtures.



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Boiling point	: Not applicable for gas mixtures.
Flash point	: Not applicable for gases and gas mixtures.
Flammability (solid, gas)	: Non flammable.
Explosive limits	: Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Vapour density	: Not applicable for gases and gas mixtures.
Relative density, gas (air=1)	: Heavier than air.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity	: Not applicable for gases and gas mixtures.
Oxidising properties	: No oxidising properties.
9.2. Other information	
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below
	ground level.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
	Data for mixture are not available.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
10.4. Conditions to avoid	
	Avoid moisture in installation systems.
	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	Roop away nom nour spanks/open names/net sandous. No smoking.
10.5. Incompatible materials	
	For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Toxicological effects not expected from this product if occupational exposure limit values are
	and successful

Acute toxicity	 Toxicological effects not expected from this product if occupational exposure limit values are not exceeded.
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.
Other information	: The substance/mixture has no endocrine disrupting properties.



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SECTION 12: Ecological information

<u>12.1. Toxicity</u>	
Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l]	 No data available. No data available. No data available.
12.2. Persistence and degradability	
Assessment	: No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	: No ecological damage caused by this product.
<u>12.4. Mobility in soil</u>	
Assessment	: No ecological damage caused by this product.
12.5. Results of PBT and vPvB assessment	
Assessment	: Not classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	: No known effects from this product.
Effect on the ozone layer	: No effect on the ozone layer.
Effect on global warming	: Contains greenhouse gas(es).
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	 May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original container to supplier. 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
13.2. Additional information	
	External treatment and disposal of waste should comply with applicable local and/or national regulations.
SECTION 14: Transport information	
<u>14.1. UN number</u>	
In accordance with ADR / RID / IMDG / IATA / ADN UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide)
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Argon, Carbon dioxide)
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide)
14.3. Transport hazard class(es)	
Labelling	

	2.2 : Non-flammable, non-toxic gases.	
	2.2 : Non-hamr	nable, non-toxic gases.
Transport by road/rail (ADR/RID)		
Class	: 2	
Classification code	: 1A	
Hazard identification number	: 20	
Irish Oxygen Co Ltd	en (English)	Reference number: 1400



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Tunnel Restriction : E - Passage forbidden through tunnels of category E Transport by air (ICAO-TI / IATA-DGR) : Class / Div. (Sub. risk(s)) : 2.2 Transport by sea (IMDG) : Class / Div. (Sub. risk(s)) : 2.2 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-V 14.4 Packing group : Transport by road/rail (ADR/RID) : Not applicable Transport by sea (IMDG) : Not applicable Transport by sea (IMDG) : Not applicable Transport by road/rail (ADR/RID) : Not applicable Transport by road/rail (ADR/RID) : None. Transport by road/rail (ADR/RID) : None. Transport by sea (IMDG) : None. Transport by sea (IMDG) : None. Transport by road/rail (ADR/RID) : None. Transport by sea (IMDG) : None. Transport by sea (IMDG) : None. Transport by sea (IMDG) : None. Transport by road/rail (ADR/RID) : None. Transport by road/rail (ADR/RID) : None. Transport by road/rail (ADR/RID) : P200	
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Transport by road/rail (ADR/RID): P200Transport by air (ICAO-TI / IATA-DGR)	
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft : 200.	
Cargo Aircraft only : 200.	
Transport by sea (IMDG) : P200	
Special transport precautions : Avoid transport on vehicles where the load space is not separated from the	driver's
compartment.	
Ensure vehicle driver is aware of the potential hazards of the load and know	vs what to do in
the event of an accident or an emergency.	
Before transporting product containers:	
- Ensure there is adequate ventilation.	
- Ensure that containers are firmly secured.	
 Ensure valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. 	
- Ensure valve protection device (where provided) is correctly fitted.	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable.	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU-Regulations	
Seveso Directive : 2012/18/EU (Seveso III) : Not covered.	
National regulations	
Regulatory reference : Ensure all national/local regulations are observed.	
15.2. Chemical safety assessment	
A CSA does not need to be carried out for this product.	
SECTION 16. Other information	

SECTION 16: Other information

Indication of changes

: Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.



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Abbreviations and acronyms	 ATE - Acute Toxicity Estimate CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 EINECS - European Inventory of Existing Commercial Chemical Substances CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment LC50 - Lethal Concentration to 50 % of a test population RMM - Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative STOT - SE : Specific Target Organ Toxicity - Single Exposure CSA - Chemical Safety Assessment EN - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Road IATA - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Road IATA - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Road IATA - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Road IATA - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Roal WGK - Water Hazard Class STOT - RE : Specific Target Organ Toxicity - Repeated Exposure UFI : Unique Formula Identifier
Training advice	 The hazard of asphyxiation is often overlooked and must be stressed during operator training. For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu
Further information	 Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at : http://www.eiga.eu. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Full text of H- and EUH-statements	
H280	Contains gas under pressure; may explode if heated.
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas

DISCLAIMER OF LIABILITY	: Before using this product in any new process or experiment, a thorough material
	compatibility and safety study should be carried out.
	Details given in this document are believed to be correct at the time of going to press.
	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.
	End of document