

Please ensure that this SDS is received by the appropriate persons

Review Date: 27/09/2022 v01 Emergency: 0860 02 02 02 Document Number: AFX-SDS-002

1. PRODUCT	AND COMPANY IDENTIFICATION	
Product	Suremix 30, 60	
Synonym	Suremix 30, 60	
Chemical	N ₂ ,CO ₂	
Formula		
Trade Name	Suremix 30 Small	
	Suremix 30 Large	
	Suremix 60 Small	
	Suremix 60 Large	
Colour Coding Cream body with green/ purple		
_	shoulder and cream valve guard	
Product Code	564IE	
	564-SE	
	566-IE	
Company	566-SE	
Identification	African Oxygen (PTY) Limited	
Identification	Grayston Office Park Building 7	
	128 Peter Road Sandown, Sandton,	
	2196	
	Tel. No: (011) 490-0400	
	Fax No: (011) 490-0530	
	Email: customer.service@afrox.linde.com	
	www.afrox.com	
Emergency Numbers	0860 02 02 02 (Afrox)	

2. HAZARD IDENTIFICATION	
Classification	- Classification under South African Hazardous Chemical Substances Regulations subsequently amended. (HCS)
	-Classification under the Globally Harmonized System of classification and labelling of chemicals (GHS)
Emergency Overview	Colour: None Odour: None Taste: None Physical State: Compressed Gas Form: Gas under pressure
	-All cylinders are portable gas containers and must be regarded as pressure vessels at all timesSuremix 30, 60 does not support life.
Adverse Health Effects	- Asphyxiant in high concentrations
Chemical Hazards	- None
Biological Hazards	- None
Vapour Inhalation	- Asphyxiant in high concentrations
GHS Classification	- Gas under pressure

GHS Pictogram	\Diamond
GHS Signal Words	Warning
GHS Hazard Statements	- H280: Contains gas under pressure, may explode if heated
GHS Precautionary Statements	Storage: - P403 : Store in a well-ventilated place. Prevention: - P280 : Wear protective gloves/eye protection/face protection. Response: - None Disposal - None
Other Hazards that do not result in classification	- S2 Keep out of reach of Children - S9 Keep container in a well-ventilated place - S15 Keep away from heat - S37 Wear suitable gloves - S39 Wear eye/face protection - S51 Use only in well-ventilated areas

3. COMPOSITION OF INGREDIENTS	
Chemical name	Carbon dioxide
Chemical family	
CAS No	124-38-9
UN No	1013
ERG No	120
Hazard class	2.2
Hazchem Warning	2C non-flammable gas
Chemical name Chemical family	Nitrogen
CAS No	7727-37-9
UN No	1066
ERG No	121
Hazard class	2.1
Hazard warning	2C Non-flammable gas

4. FIRST AII	D MEASURES
Eye contact	- Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.
Skin Contact	- Seek medical evaluation and treatment as soon as possible.
Ingestion	 Ingestion is not considered a potential route of exposure.
Inhalation	 In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self-contained breathing apparatus.
	 -Keep victim warm and rested. Seek medical attention. Apply artificial respiration if breathing stopped.



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5. FIRE-FIGI	HTING MEASURES
Suitable extinguishing media Unsuitable extinguishing	Material will not burn. In case of fire in the surroundings: use appropriate extinguishing agent. None.
media:	
Specific Hazards	- Asphyxiant in high concentrations.
Special fire fighting procedures:	- In case of fire: Stop leak if safe to do so. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire.
Special protective equipment for firefighters:	- Exposed Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces a self-contained breathing apparatus.

6. ACCIDEN	TAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures:	 Evacuate area. Provide adequate ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. In an enclosed or non-ventilated space, a self-contained breathing apparatus must
Environmental Precautions	be used.Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up:	- Provide adequate ventilation.

7. HANDLING AND STORAGE	
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 back feed into the container. 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 valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Replace valve outlet caps or plugs and container caps were supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminants 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. Conditions -Containers should not be stored in conditions likely to encourage corrosion. Keep away from food, drink and animal including any feeding stuffs. Stored containers should be incompatibilit 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 pressure containers away from combustible material.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION		
Occupational Exposure Hazards (HCS)	-Not specified	
Engineering Control Measures	- Engineering control measures are preferred to reduce exposures. General methods include mechanical ventilation, process or personal enclosure, and control of process conditions. Administrative controls and personal protective equipment may also be required. A Risk assessment should be conducted to evaluate the suitability of PPE to the task being performed	
Personal Protection	- When allowed by a risk assessment Respiratory Protective Equipment (RPE) may 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



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	(SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.
Eyes	-Wear safety glasses
Hands	-Guideline: Protective gloves against mechanical risks.
	-Additional Information: Wear working gloves while handling containers
Body protection:	As per regulation for area.
Feet	- Wear safety shoes while handling containers

9. PHYSICAL AND CHEMICAL PROPERTIES		
Chemical Name	Suremix 30, 60	
Chemical Symbol	N ₂ ,CO ₂	
Physical state	Gas	
Form:	Gas	
Colour:	Colourless	
Odour:	Odourless	
Odour Threshold:	No odour.	
pH:	No effect in water	
Melting Point:	Not applicable	
Boiling Point:	Not applicable	
Sublimation Point:	Not applicable	
Critical Temp. (°C):	Not applicable	
Flash Point:	Not applicable	
Evaporation Rate:	Not applicable.	
Flammability (gas):	Non Flammable	
Flammability limit - upper (%):	Not applicable	
Flammability limit - lower(%):	Not applicable	
Vapour pressure:	Permanent gas	
Vapour density	1.16-1.495@20°C	
Relative density:	0.97-1.246@20°C	
Solubility(ies)		
Solubility in Water:	Not Known	
Partition coefficient (n- octanol/water):	Not known	
Autoignition Temperature:	Not applicable.	
Decomposition Temperature:	Not known.	
Viscosity		
Kinematic viscosity:	No data available.	
Dynamic viscosity:	Not applicable	
Explosive properties:	Not applicable	
Oxidising Properties:	Not applicable	
Molecular weight	Not applicable	

10. STABILITY AND REACTIVITY	
Reactivity	-Not reactive
Chemical stability	- Stable under normal conditions.
Possibility of hazardous reactions	- Gas under high pressure. Accumulate in low lying areas.
Conditions to avoid	- Overheating of cylinders. Never use cylinders as rollers or supports; or for any

	other purpose than the storage of Suremix 30, 60
Incompatible Materials	None
Hazardous Decomposition of Products	Will not decompose

11. TOXOLOGICAL INFORMATION	
Acute Toxicity	Non toxic
Skin & eye contact	No adverse effect
Chronic Toxicity	Based on available data, the
	classification criteria are not met.
Carcinogenicity	Based on available data, the
	classification criteria are not met.
Mutagenicity	Based on available data, the
	classification criteria are not met.
Reproductive Hazards	Based on available data, the
	classification criteria are not met.

12. ECOLOGICAL INFORMATION		
Toxicity	No ecological damage caused by this product.	
Persistence and degradability	Not applicable	
Bioaccumulative Potential Product	No bio-accumulating hazard.	
Mobility in soil	No hazard	
Results of PBT and vPvB assessment	Not classified as persistent, bio- accumulating and toxic (PBT).	
Other adverse effects	No ecological damage caused by this product.	
Effect on ozone layer	None	
Effect on the global warming (CO2=1)	0	

13. DISPOSAL CONSIDERATIONS	
Disposal Methods	 Do not discharge into any place where its accumulation could be dangerous. Vent to atmosphere in a well-ventilated place.
Disposal of Packaging	The container is the property of the supplier, and the disposal of the containers must only be handled by the supplier.

14. TRANSPORT INFORMATION		
Road Transportation		
UN No.	1956	
Shipping Name	Suremix 30, 60	
ERG No.	121	
Class	2.2	
Subsidiary Risk	Non- flammable, Non-toxic gases	
Hazchem Warning	2C Non-flammable	
Sea Transportation		
IMDG	1956	
Shipping Name	Suremix 30, 60	
ERG No.	121	
Class	2.2	



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Subsidiary Risk	Non- flammable	
Label	Non-flammable	
Air Transportation		
ICAO/IATA Code	1956	
Class	2.2	
Packing Group:	-	
Packaging	- Cargo: 150 kg	
instructions	- Passenger: 75 kg	

15. REGULATORY INFORMATION		
EEC Hazard class: non-Toxic, non-Corrosive gas. National legislation OHSact and Regulations 85 of 1993.		
SANS 11014:2010 Edition 1	Safety data sheet for chemical products - Content and order of sections	
SANS 10228:2012 Edition 6	The identification and classification of dangerous goods for transport by road and rail modes	
SANS 10234:2019 Edition 2	Globally Harmonized System of classification and labelling of chemicals (GHS)	
SUPPLEMENT TO SANS 10234 Edition 1	List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS)	

16. OTHER INFORMATION

- Ensure all national/local regulations are observed.
- Ensure users and relevant persons understand the asphyxiation hazard
- Regularly check supplier's information sources for updated versions of SDS's

Revision Date 27/9/2022 v01

Bibliography

Compressed Gas Association, Arlington, Virginia Handbook of Compressed Gases - 3rd Edition Matheson Gas Data Book - 6th Edition SANS 11014 - Safety data sheet for chemical products: Content and order of sections

SANS 10234 - List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS) SANS 10265 – Classification and Labelling of Dangerous Substances

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