

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 Formula	N ₂ ,CO ₂
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 566-SE
Company	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 times. Suremix 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	Storage:
Precautionary	- P403 : Store in a well-ventilated place.
Statements	Prevention:
	 P280 : Wear protective gloves/eye
	protection/face protection.
	Response:
	- None
	Disposal
	- None
Other Hazards	- S2 Keep out of reach of Children
that do not result in	- S9 Keep container in a well-ventilated
classification	place
classification	- 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 Chemical family	Carbon dioxide
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 AID 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.



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-Keep victim warm and rested. Seek medical
attention. Apply artificial respiration if
breathing stopped.

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	 Material will not burn. In case of fire in the surroundings: use appropriate extinguishing agent.
Unsuitable extinguishing media:	- None.
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 be used.
Environmental Precautions	 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 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 for safe storage, including any incompatibilit ies	-Containers should not be stored in conditions likely to encourage corrosion. Keep away from food, drink and animal feeding stuffs. Stored containers should be 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

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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



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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 (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	<u>Suremix 30, 60</u>
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. DISPOSA	L CONSIDERATIONS
Disposal	- Do not discharge into any place where its
Methods	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



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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
Subsidiary Risk	Non- flammable
Label	Non-flammable
Air Transportation	on
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

v01

Revision Date	27/9/2022

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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