

Safety Data Sheet

according to WHS Regulations

Printing date 04.11.2020

Revision: 04.11.2020

1 Identification

Product Name: MSA AUER CHEMICAL OXYGEN BREATHING APPARATUS AND CANISTER

Recommended Use of the Chemical and Restriction on Use: Respiratory protection exclusively

Details of Manufacturer or Importer:

MSA Australia Pty Ltd
Norwest Business Park
11 Columbia Way
Baulkham Hills NSW 2153

Phone Number: 61 2 9688 0361

Emergency telephone number: National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:



flame over circle

Oxidising Solids 2

H272 May intensify fire; oxidizer.



corrosion

Skin Corrosion/Irritation 1A

H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1

H318 Causes serious eye damage.

Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidizer.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use to extinguish: CO2, powder or water spray.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

Additional Information

Chemical oxygen breathing apparatus is a self-contained respiratory protection rescue device, which contains potassium superoxide. Release of hazardous ingredients is not possible if used properly.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 04.11.2020

Revision: 04.11.2020

Product Name: MSA AUER CHEMICAL OXYGEN BREATHING APPARATUS AND CANISTER

(Contd. of page 1)

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:**

Chemical oxygen breathing apparatus is a self-contained respiratory protection rescue device, which contains potassium superoxide.

Hazardous Components:

CAS: 12030-88-5	potassium superoxide	<20%
	 Oxidising Solids 1, H271;  Skin Corrosion/Irritation 1A, H314; Serious Eye Damage/Irritation 1, H318	

4 First Aid Measures

Inhalation:

If potassium superoxide is released move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

If potassium superoxide is released and in contact with skin, wash affected areas with water and soap. Swab affected skin areas with polyethylene glycol. Seek immediate medical attention.

Eye Contact:

If potassium superoxide is released and in case of eye contact, rinse cautiously with water for at least 15 minutes. Seek immediate medical attention.

Ingestion:

If potassium superoxide is released and if swallowed, wash mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause irritation to the respiratory tract, cough, shortness of breath, headache, nausea.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Ingestion: May cause burns of the upper digestive and respiratory tracts, perforation of the oesophagus and stomach.

5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical powder and dry sand. Do not use high volume water jet.

Specific Hazards Arising from the Chemical:

Hazardous decomposition products include potassium oxides.

Canister should not come into contact with water as potassium superoxide reacts violently with water.

Hazchem: 1Y

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust, vapours, mist, or gas. Ensure adequate ventilation. Avoid dust formation.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 04.11.2020

Revision: 04.11.2020

Product Name: MSA AUER CHEMICAL OXYGEN BREATHING APPARATUS AND CANISTER

(Contd. of page 2)

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep granules into a pile and shovel into suitable, closed containers for subsequent disposal. Do not flush with water. Avoid generating dust.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Avoid formation of dust and aerosols during use.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area, tightly closed. Protect from heat, sparks, open flames and other sources of ignition. Never allow product to get in contact with water or alkalis during storage. Avoid storing product with strong acids, alcohols, strong reducing agents or powdered metals.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Granular solid
Colour:	Yellow
Odour:	Odourless
Odour Threshold:	Odourless
pH-Value:	>7
Melting point/freezing point:	380-440 °C
Initial Boiling Point/Boiling Range:	No information available

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 04.11.2020

Revision: 04.11.2020

Product Name: MSA AUER CHEMICAL OXYGEN BREATHING APPARATUS AND CANISTER

(Contd. of page 3)

Flash Point:	Not applicable
Flammability:	Contact with combustible material may cause fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	425 °C

10 Stability and Reactivity

Possibility of Hazardous Reactions: Reacts violently with water.

Chemical Stability: Stable at ambient temperature and under recommended conditions of storage and use.

Conditions to Avoid:

Moisture/contact with water, and heat, sparks, open flames, and other sources of ignition.

Incompatible Materials: Strong acids, alkalis, alcohols, strong reducing agents, powdered metals, and water.

Hazardous Decomposition Products: Potassium oxides.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification: No information available

Acute Health Effects

Inhalation: May cause irritation to the respiratory tract, Cough, Shortness of breath, Headache, Nausea

Skin: Causes severe skin burns.

Eye: Causes serious eye damage.

Ingestion:

May cause burns of the upper digestive and respiratory tracts, perforation of the oesophagus and stomach.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available.

Existing Conditions Aggravated by Exposure: No information available.

12 Ecological Information

Ecotoxicity: Not applicable for intact article.

Aquatic toxicity: Not applicable for intact article.

Persistence and Degradability: Not applicable for intact article.

Bioaccumulative Potential: Not applicable for intact article.

Mobility in Soil: Not applicable for intact article.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 04.11.2020

Revision: 04.11.2020

Product Name: MSA AUER CHEMICAL OXYGEN BREATHING APPARATUS AND CANISTER

(Contd. of page 4)

Other adverse effects: Not applicable for an intact article.

13 Disposal Considerations

Disposal Methods and Containers:

Dispose of spent product and containers according to applicable local and state government regulations. Do not allow product to reach the sewerage system.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number	UN3356
Proper Shipping Name	OXYGEN GENERATOR, CHEMICAL
Dangerous Goods Class	5.1
Packing Group:	II
EMS Number:	F-H,S-Q
Hazchem Code:	1Y
Special Provisions:	284
Limited Quantities:	0
Packagings & IBCs - Packing Instruction:	P500
Packagings & IBCs - Special Packing Provisions:	Not applicable
Portable Tanks & Bulk Containers - Instructions:	Not applicable
Portable Tanks & Bulk Containers - Special Provisions:	Not applicable

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 12030-88-5 | potassium superoxide

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 04.11.2020**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Oxidising Solids 1: Oxidising solids, Hazard Category 1

Oxidising Solids 2: Oxidising solids, Hazard Category 2

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 04.11.2020

Revision: 04.11.2020

Product Name: MSA AUER CHEMICAL OXYGEN BREATHING APPARATUS AND CANISTER

(Contd. of page 5)

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. MSA Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.