

SAFETY DATA SHEET

2797

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name < 5% CARBONYL SULPHIDE, BALANCE NITROGEN

Synonym(s) 2797 - SDS NUMBER • SPECIAL GAS MIXTURE

1.2 Uses and uses advised against

Use(s) CALIBRATION • INDUSTRIAL APPLICATIONS

1.3 Details of the supplier of the product

| Supplier name | BOC LIMITED (AUSTRALIA) |
|---------------|--|
| Address | 10 Julius Avenue, North Ryde, NSW, 2113, AUSTRALIA |
| Telephone | 131 262, (02) 8874 4400 |
| Fax | 132 427 (24 hours) |
| Website | http://www.boc.com.au |

1.4 Emergency telephone number(s)

Emergency

1800 653 572 (24/7) (Australia only)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

GHS classification(s) Gases Under Pressure: Compressed gas

| ~ ~ | | |
|-----|-------|----------|
| 2.2 | Labei | elements |

Signal word Pictogram(s)



Hazard statement(s) H280

Contains gas under pressure; may explode if heated.

Prevention statement(s) None allocated.

Response statement(s)

None allocated.

Storage statement(s)

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal statement(s) None allocated.

2.3 Other hazards Asphyxiant. Effects are proportional to oxygen displacement.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

| Ingredient | CAS Number | EC Number | Content (v/v) |
|-------------------|------------|-----------|---------------|
| CARBONYL SULPHIDE | 463-58-1 | 207-340-0 | <5% |
| NITROGEN | 7727-37-9 | 231-783-9 | Remainder |

4. FIRST AID MEASURES

4.1 Description of first aid measures

 Eye
 None required.

 Inhalation
 If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Apply artificial respiration if not breathing. Give oxygen if available. For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.

 Skin
 None required.

 Ingestion
 Ingestion is not considered a potential route of exposure.

 First aid facilities
 No information provided.

4.2 Most important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility / consciousness. Victim may not be aware of asphyxiation. Headache, dizziness, lassitude, nausea and vomiting may occur in some cases.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use water fog to cool containers from protected area.

5.2 Special hazards arising from the substance or mixture

Non flammable.

5.3 Advice for firefighters

Temperatures in a fire may cause cylinders to rupture. Cool cylinders or containers exposed to fire by applying water from a protected location. Remove cool cylinders from the path of the fire. Evacuate the area if unable to keep cylinders cool. Do not approach cylinders or containers suspected of being hot.

5.4 Hazchem code

2TE

- 2 Fine Water Spray.
- T Wear full fire kit and breathing apparatus. Dilute spill and run-off.
- E Evacuation of people in and around the immediate vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

If the cylinder is leaking, evacuate area of personnel. Inform manufacturer/supplier of leak. Use Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS.

6.2 Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow to discharge if safe to do so. Do not attempt to repair leaking valve or cylinder safety devices.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use of safe work practices are recommended to avoid inhalation. Do not drag, drop, slide or roll cylinders. The uncontrolled release of a gas under pressure may cause physical harm. Use a suitable hand truck for cylinder movement.

7.2 Conditions for safe storage, including any incompatibilities

Cylinders should be stored below 45°C in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy traffic and emergency exits.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

| Ingredient | Reference | TWA | | STEL | |
|------------|-----------|-----|-------|--------|-------|
| Ingredient | Kelefende | | mg/m³ | ppm | mg/m³ |
| Nitrogen | SWA (AUS) | | Asph | yxiant | |

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls Provide suitable ventilation to minimise or eliminate exposure. Confined areas (e.g. tanks) should be adequately ventilated or gas tested.

PPE

| Eye / Face | Wear safety glasses. |
|-------------|--|
| Hands | Wear leather gloves. |
| Body | Wear coveralls and safety boots. |
| Respiratory | Where an inhalation risk exists, wear Self Contained Breathing Apparatus (SCBA) or an Air-line respirator. |



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Appearance | COLOURLESS GAS |
|---------------------------|----------------|
| Odour | SLIGHT ODOUR |
| Flammability | NON FLAMMABLE |
| Flash point | NOT RELEVANT |
| Boiling point | NOT AVAILABLE |
| Melting point | NOT AVAILABLE |
| Evaporation rate | NOT APPLICABLE |
| рН | NOT APPLICABLE |
| Vapour density | NOT AVAILABLE |
| Specific gravity | NOT APPLICABLE |
| Solubility (water) | NOT AVAILABLE |
| Vapour pressure | NOT AVAILABLE |
| Upper explosion limit | NOT RELEVANT |
| Lower explosion limit | NOT RELEVANT |
| Partition coefficient | NOT AVAILABLE |
| Autoignition temperature | NOT AVAILABLE |
| Decomposition temperature | NOT AVAILABLE |

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9.1 Information on basic physical and chemical properties

| Viscosity | NOT AVAILABLE |
|-------------------------------|------------------------|
| Explosive properties | NOT AVAILABLE |
| Oxidising properties | NOT AVAILABLE |
| Odour threshold | NOT AVAILABLE |
| 9.2 Other information | |
| Cylinder pressure (when full) | 13000 kPa to 30000 kPa |
| % Volatiles | 100 % |

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Compatible with most commonly used materials.

10.6 Hazardous decomposition products

This material will not decompose to form hazardous products other than that already present.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity May be harmful if inhaled. Headache, dizziness, lassitude, nausea and vomiting may occur in some cases. CARBONYL SULPHIDE LC50 (Inhalation): 1070 ppm / 4 hours (rat) Skin Not classified as a skin irritant. Eye Not classified as an eye irritant. Sensitization Not classified as causing skin or respiratory sensitisation. Mutagenicity Not classified as a mutagen. Carcinogenicity Not classified as a carcinogen. Reproductive Not classified as a reproductive toxin. STOT - single Asphyxiant. Effects are proportional to oxygen displacement. Over exposure may result in dizziness, drowsiness, weakness, fatigue, breathing difficulties and unconsciousness. exposure STOT - repeated Not classified as causing organ effects from repeated exposure. exposure Not classified as causing aspiration. Aspiration

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

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12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

Product is not harmful to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposalCylinders should be returned to the manufacturer or supplier for disposal of contents.LegislationDispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



| | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|--------------------------------|---|---|---|
| 14.1 UN Number | 1956 | 1956 | 1956 |
| 14.2 Proper Shipping Name | COMPRESSED GAS, N.O.S. (Contains nitrogen) | COMPRESSED GAS, N.O.S. (Contains nitrogen) | COMPRESSED GAS, N.O.S. (Contains nitrogen) |
| 14.3 Transport hazard class | 2.2 | 2.2 | 2.2 |
| 14.4 Packing Group | None Allocated | None Allocated | None Allocated |

14.5 Environmental hazards No information provided

14.6 Special precautions for user

| Hazchem code | 2TE |
|-------------------|--|
| GTEPG | 2C1 |
| EMS | F-C, S-V |
| Other information | Ensure cylinder is separated from driver and that outlet of relief device is not obstructed. Refer to Commonwealth, State and Territory Dangerous Goods Legislation which contain requirements which affect gas storage and transport. |

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| Poison schedule | A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). | |
|----------------------|---|--|
| Classifications | Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. | |
| | The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]. | |
| Hazard codes | None allocated. | |
| Risk phrases | None allocated. | |
| Safety phrases | None allocated. | |
| Inventory listing(s) | AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. | |



16. OTHER INFORMATION

| APPLICATION METHOD: Gas regulator of suitable pressure and flow rating fitted to cylinder or manifold with low pressure gas distribution to equipment. PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The rocommendation for protocole equipment controls should be considered before final selection of personal protective equipment is made. PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: HEALTH EFFECTS FROM EXPOSURE: It should be interfailed and the availability of engineering controls should be considered before final selection of personal protective equipment is made. Abbreviations ACGIH American Conference of Sovernmental Industrial Hygionists CAS # Control methods where appropriate. Abbreviations ACGIH American Conference of covernmental Industrial Hygionists CAS # Control methods where appropriate. CAS # Consection Community Number ENS Entrogeney Schedules (Entrogeney Procedures for Shipe Carrying Dangarous (CSS) CAS # Commonity Approximation (Weddin Lethal Concentration LCSS) LCSS O Lethal Obset, SSV, Meddin Lethal Concentration LCSS O Lethal Obset, SSV, Meddin Lethal Concentration DSD Lethal Dose, CSV, Meddin Lethal Concentration LSSS </th <th>Additional information</th> <th></th> <th>of significant quantities of gas cylinders must comply with AS4332 The storage and gases in cylinders.</th> | Additional information | | of significant quantities of gas cylinders must comply with AS4332 The storage and gases in cylinders. |
|--|------------------------|---|---|
| The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment using (guidantity) used; effectiveness of control measures; protective equipment used and method of application. Since diffectiveness of control measures; protective equipment used and method of application. Since diffectiveness of control measures; protective equipment used and method of application. Since diffectiveness of control measures; protective equipment used and method of application. Since during the second apply control methods where appropriate. Abbreviations ACGIH American Conference of Governmental Industrial Hygionists CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds CAS # CAS # Chemical Abstract Service number - used to uniq | | | |
| It should be noted that the effects from exposure to this product will depend on several factors including; requency and duration of use; quantity used; effectiveness of control mesures; protective equipment used and method of application. Given that it is impracticated to prepare a Chemical Hard possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate. Abbreviations ACGIH American Conference of Govornmental Industrial Hygienists CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds ONS CNS Central Nervous System ECNo. EC No - European Community Number EMS Entergency Schedules (Enregency Procedures for Ships Carrying Dangerous Goods) GHS Globally Harmonized System CTEPG Group Text Energency Procedure Guide LRAC International Agency for Research on Cancer LC50 Lethal Concentration, 50% / Median Lethal Concentration LD50 Lethal Concentration Strops with Interpret organization is a scale of 0 (high acidic) to 14 (highly alkaline) ppm Parts Per Million STEL Specific target organ toxicily (repeated exposure) SUSMP Standard for the Uniform Scheduling of Medicines and Poisons SWA Safe Work Australia TLV Thresbed Limit Value TWA <th></th> <th>The recomm only. Factor concentration</th> <th>nendation for protective equipment contained within this report is provided as a guide rs such as method of application, working environment, quantity used, product n and the availability of engineering controls should be considered before final selection</th> | | The recomm only. Factor concentration | nendation for protective equipment contained within this report is provided as a guide rs such as method of application, working environment, quantity used, product n and the availability of engineering controls should be considered before final selection |
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