

\$Bgkitdeat688064scent #05-15 **V40.BS61F322** Fax: 65619589 **Singip8ate856064**oexpress.com.sg

Tel: 6561 5282 Fax: 65619589

MATERIAL SAFETY DATA SHEET

Oxygen (Gas)

PRODUCT AND COMPANY IDENTIFICATION

Product name Oxygen (compressed)

Chemical name Oxygen
Chemical formula O2

Company identification CryoExpress Singapore Pte Ltd

1 Bukit Batok Crescent #05-15

WCEGA Plaza Singapore 658064

Telephone number (65) 6561 5282

PRODUCT INFORMATION / INGREDIENTS

Components Formed from element oxygen

Impurities Contains no other impurities which will influence the classification of the

product

CAS Nr 7782-44-7

HAZARDS IDENTIFICATION

Hazards identification High oxidizing gas. Greatly accelerates combustion rate.

Inhalation May cause breathing difficulties. Exposure to high oxygen levels (>75%) for

more than a few hours could cause central nervous system depression:

signs/symptoms include headache, dizziness, drowsiness, poor coordination, slow reaction time, slurred speech, giddiness and unconsciousness. May cause coughing and chest pain. May cause lung damage. May cause

soreness of the throat.

Skin / Eye contact

No adverse effects anticipated.

Ingestion

Ingestion is unlikely to happen

MSDS: GO2/2017/1 Page 1 of 4

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FIRST AID MEASURES

Inhalation Personnel should wear adequate personal protective equipment before

entering exposed area. Remove victim to fresh air area. If victim is not breathing, administer artificial respiration. Obtain medical assistance.

Skin/Eye contact No adverse effects anticipated.

Ingestion No first aid should be needed. Not considered a potential route of exposure.

FIRE FIGHTING MEASURES

Specific hazards Oxidizer.
Hazardous combustion products None.

Suitable extinguishing media All known extinguishers can be used.

ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate all personnel from affected area. Wear protective clothing and self-

contained breathing apparatus. Eliminate source of ignition and respond with trained personnel. Adequate fire protection equipment must be provided.

Environmental precautions Stop flow without risk.

Clean up methods Ventilate area. Monitor the surrounding area for oxygen level.

HANDLING AND STORAGE

Handling and storage Open valve slowly to avoid pressure shock. Container should be stored in

dry, well-ventilated areas away from sources of heat, ignition, flammable materials and direct sunlight. Storage area should not exceed 52°C. Do not use oils or grease on gas-handling fittings or equipment. Post "No Smoking

or Open Flames" signs in storage or use areas. Have appropriate

extinguishing equipment in the storage area (i.e. sprinkler system, portable

fire extinguishers). Contact supplier if in doubt.

MSDS: GO2/2017/1 Page 2 of 4

CHARLES SINGAPORE PTE LTD

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Exposure limit value (PEL-OSHA) None

Personal protection Ensure adequate ventilation. In case of leakage, use self-contained

breathing apparatus.

PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight 32

Freezing point -218.8 °C

Boiling point -183 °C

Critical temperature -118 °C

Relative density, gas 1.11 (air = 1)

Relative density, liquid 1.14 (water = 1)

Vapour pressure 20 °C Not applicable

Solubility mg/l water 39 mg/l

Odour and appearance Colourless, odourless gas.

Other data Gas/vapour heavier than air. May accumulate in confined spaces,

particularly at or below ground level.

STABILITY AND REACTIVITY

Stability and reactivity Stable under normal conditions.

TOXILOGICAL INFORMATION

General None.

ECOLOGICAL INFORMATION

General None.

DISPOSAL CONSIDERATIONS

General Do not discharge into any place where its accumulation could be dangerous.

Discharge to atmosphere in large quantities should be avoided. Contact

supplier if guidance is required.

MSDS: GO2/2017/1 Page 3 of 4

TRANSPORT INFORMATION

Proper shipping name Oxygen, compressed

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UN Nr 1072 Hazard class 2.2

Shipping label Label 05: Fire intensifying risk. Label 2: Non flammable gas.

Other transport information Avoid transport on vehicles where load space is not separated from driver's

compartment. Ensure vehicle driver is aware of the potential hazards and knows what to do in event of an accident or an emergency. Ensure container

is firmly secured and not leaking.

REGULATORY INFORMATION

WSHA & WSH Regulation This product is subject to the SDS, Labelling, PEL and other requirements in

the Act/Regulations.

EPM Act & EPM Regulations This product is subject to the requirements in the Act/Regulations.

OTHER INFORMATION

Ensure all national/local regulations are observed.

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. This MSDS is for information purposes only and is subject to change without notice.

MSDS: GO2/2017/1 Page 4 of 4