

Material Safety Data Sheet Gaseous Oxygen

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Oxygen (Gaseous),

Supplier/ Manufacturer: TOL Gases, Limited
P.O Box 911, Dar
Salaam, Tanzania

Emergency phone: +255 2860047/9
E-Mail: info@tol-gases.co.tz
Website: www.tolgases.com

Section 2 : COMPOSITION/ INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingredient Name	OSHA PEL	ACGIH TLV	OSHA STEL
7782-44-7	Typically > 99 (MSDS also applies to 90 - 99%)	OXYGEN (+N ₂ & Ar)	NONE	NONE	NONE

Section 3 : HAZARD IDENTIFICATION

Emergency Overview: Oxygen gas is colourless, odourless, non-toxic cryogenic liquid or colourless, odourless, oxidizing gas. Liquid releases will quickly vaporize to gas.

The chief physical hazard associated with releases of the gas is its oxidizing power which can greatly accelerate the burning rate for both common and exotic combustible materials. Emergency personnel must practice extreme caution when approaching oxygen releases because of the potential for intense fire.

The primary health hazard at atmospheric pressure is respiratory system irritation after exposure to high oxygen concentrations. Maintain oxygen levels in air above 19.5% and below 23.5%. While up to 50% oxygen can be breathed for more than 24 hours without adverse effects, high concentrations in open air accelerate combustion and increase the risk of fire and explosion of combustible or flammable materials.

Route of entry: Inhalation, skin and eye contact.

Effects of acute exposure

Eye contact: No adverse effects expected.

Skin contact: No adverse effects expected.

Inhalation: May cause breathing difficulty.

Prolonged exposure to high oxygen levels (>75%) can cause central nervous system depression: signs/symptoms can include

Conditions of reactivity: Heat

Hazardous polymerization: Will not occur.

Incompatible substances: Oxidizing materials (oxygen, chlorine, bromine, chlorine bromide, nitrogen trifluoride)
Metal oxides, metal salts, halo carbons.

Hazardous Decomposition Products: None.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product: Simple asphyxiant.

LC50 of product: Simple asphyxiant..

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: Gas will dissipate in air. Cylinders should be returned in the original shipping container, properly labelled, with residual product, valve outlet plugs or caps secured and valve protection cap in place.

Section 14 : TRANSPORT INFORMATION

For cylinder shipments:
Hydrogen, compressed
UN1049
Class 2.1 (Flammable Gas).

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