

Electronic Specialty Gases (ESG) Safety -Toxic Gases

Overview:

Electronic Specialty Gases (ESGs) are used to manufacture semiconductor, solar cells, liquid crystal displays etc. These gases are supplied either as pressurized gases or liquefied gases. Uncontrolled release of these gases can lead to severe injury and/or property damages. Toxic gases can exist in acidic, alkaline, oxidizers and metal hydride forms.



Health Hazards (GHS)



Many of these toxic gases possess more than one hazard due to the inherent physical properties, biological and chemical reactivity. *Always refer to Safety Datasheet from the manufacturer to understand the hazards and recommendation for safe handling.*

Route of Entry









Acute Toxicity



Chronic Toxicity

Inhalation

Absorption/ Skin contact/ Ingestion

Can lead to rapid death

Deterioration of health



Refer to AIGA 018 Safe Handling of Electronic Specialty Gases

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ASIA INDUSTRIAL GASES ASSOCIATION No-2 Venture Drive,# 22-28 Vision Exchange, Singapore 608526, Tel: +65 67055642 Internet: <u>www.asiaiga.org</u> / *LinkedIn Profile: <u>https://www.linkedin.com/company/asiaiga.org</u>*