




SAFETY DATA SHEET

Creation Date: 2-8-21

Revision Date: 2-8-21

SDS-12, Revision Number: 1

1	Identification	<p>a) Product identifier used on the label: ZG-900, ZG-620 and ZGA-302</p> <p>b) Other means of identification: Zero Gas</p> <p>c) Recommended use of the chemical and restrictions on use: Gas for Simulating Nitrogen</p> <p>d) Bascom-Turner Instruments, Inc., 111 Downey Street, Norwood, MA 02062</p> <p>e) Emergency telephone number: 781-769-9660</p>															
2	Hazard(s) identification	<p>a) Classification of the chemical in accordance with paragraph (d) of §1910.1200: GHS04 Gas Cylinder</p> <p>b) Signal word: Warning</p> <div style="display: flex; align-items: center; margin: 10px 0;">  <div> <p>Hazard Statements: H280 Contains gas under pressure; may explode if heated</p> <p>Precautionary Statements: P410: Protect from Sunlight P403: Store in a well-ventilated place</p> </div> </div> <p>c) Hazards not otherwise classified: None known.</p> <p>d) No component at 1% concentration or higher having unknown acute toxicity.</p>															
3	Composition/ information on ingredients	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Hazardous Ingredients Approximate</th> <th style="width: 20%;">Concentration %</th> <th style="width: 20%;">C.A.S. N.A. or U.N. Number</th> <th style="width: 20%;">“Exposure limits”</th> <th style="width: 20%;">LD50/LC50</th> </tr> </thead> <tbody> <tr> <td>Gas Mixture</td> <td>Proprietary (as provided for in paragraph (i) of §1910.1200 on trade secrets)</td> <td>N/A</td> <td>N/A</td> <td>N.D.</td> </tr> <tr> <td>Oxygen</td> <td>21%</td> <td>7782-44-7</td> <td>None, Oxygen should be maintained >19.5%</td> <td>N/A</td> </tr> </tbody> </table>	Hazardous Ingredients Approximate	Concentration %	C.A.S. N.A. or U.N. Number	“Exposure limits”	LD50/LC50	Gas Mixture	Proprietary (as provided for in paragraph (i) of §1910.1200 on trade secrets)	N/A	N/A	N.D.	Oxygen	21%	7782-44-7	None, Oxygen should be maintained >19.5%	N/A
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4	First aid measures	<p>a) Description of necessary measures Inhalation: N/A Skin: N/A Eye contact: N/A Ingestion: N/A</p> <p>b) Most important symptoms/effects, acute and delayed: N/A</p> <p>c) General Advice: Victim(s) who experience any adverse effect after over-exposure to this product must be taken for medical attention. Take a copy of the label and the MSDS to physician or other health professional with victim(s).</p>															
5	Fire-fighting measures	<p>a) Suitable (and unsuitable) extinguishing media: Non-flammable gas mixture. Use extinguishing media appropriate for surrounding fire.</p> <p>b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): N/A</p> <p>c) Special protective equipment and precautions for fire-fighters: Although gas mixture is non-flammable, the containers may rupture or burst due to the heat when exposed to fire. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of the tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.</p>															

6	Accidental release measures	<p>a) Personal precautions, protective equipment, and emergency procedures: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a controlled rapid release of gas, clear the affected area, protect people, and respond with trained personnel. Care should be taken to avoid contact with rapidly expanding gases.</p> <p>b) Methods and materials for containment and cleaning up: N/A</p>
7	Handling and storage	<p>a) Precautions for safe handling: Firmly secure cylinders to prevent knocking over or falling. Ensure good ventilation/exhaustion at the workplace.</p> <p>b) Conditions for safe storage, including any incompatibilities: Cylinders must be protected from the environment, and preferably kept at room temperature. Cylinders should be stored in dry, well ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage.</p>
8	Exposure controls/personal protection	<p>a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available: N/A.</p> <p>b) Appropriate engineering controls: No special ventilation systems or engineering controls are needed under normal circumstances of use.</p> <p>c) Individual protection measures, such as personal protective equipment: N/A.</p>
9	Physical and chemical properties	<p>a) Appearance (physical state, color, etc.): Invisible gas.</p> <p>b) Odor: Odorless</p> <p>c) Odor threshold: N/A</p> <p>d) pH: N/A</p> <p>e) Melting point/freezing point: N/A</p> <p>f) Initial boiling point and boiling range: N/A</p> <p>g) Flash point: No flash point</p> <p>h) Evaporation rate: N/A</p> <p>i) Flammability (solid, gas): Non-flammable</p> <p>j) Upper/lower flammability or explosive limits: N/A</p> <p>k) Vapor pressure: N/A</p> <p>l) Vapor density: density of air</p> <p>m) Relative density: N/A</p> <p>n) Solubility(ies): N/A</p> <p>o) Partition coefficient: n-octanol/water: N/A</p> <p>p) Auto-ignition temperature: N/A</p> <p>q) Decomposition temperature: N/A;</p> <p>r) Viscosity: N/A</p>
10	Stability and reactivity	<p>a) Reactivity: Not reactive</p> <p>b) Chemical stability; Stable</p> <p>c) Possibility of hazardous reactions: None</p> <p>d) Conditions to avoid (e.g., static discharge, shock, or vibration): None</p> <p>e) Incompatible materials: None.</p> <p>f) Hazardous decomposition products: CO</p>
11	Toxicological information	<p>Description of the various toxicological (health) effects and the available data used to identify those effects, including:</p> <p>a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): N/A.</p> <p>b) Symptoms related to the physical, chemical and toxicological characteristics: N/A</p> <p>c) Delayed and immediate effects and also chronic effects from short- and long-term exposure: N/A</p> <p>d) Numerical measures of toxicity (such as acute toxicity estimates): N/A</p> <p>e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA: N/A</p>

12	Ecological information (Non-mandatory)	<ul style="list-style-type: none"> a) Ecotoxicity (aquatic and terrestrial, where available): N/A b) Persistence and degradability: N/A c) Bioaccumulative potential: N/A d) Mobility in soil: N/A e) Other adverse effects (such as hazardous to the ozone layer): N/A
13	Disposal considerations (Non-mandatory)	<p>Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Once the cylinders are relieved of pressure (empty) they are not considered hazardous material or waste. It is acceptable to place empty cylinders in a landfill if local laws permit.</p>
14	Transport information (Non-mandatory)	<ul style="list-style-type: none"> a) UN number; UN1956 b) UN proper shipping name; compressed gasses, n.o.s. (Oxygen) c) Transport class(es): 2.2 Non-flammable gas d) Packing group, if applicable: e) Environmental hazards (e.g., Marine pollutant (Yes/No)): No f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): DOT Label required: Non-Flammable Gas. North American Emergency Response Guidebook Number (1996): 126 g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: N/A
15	Regulatory information (Non-mandatory)	<p>Safety, health and environmental regulations specific for the product in question:</p> <p>Section 355 (extremely hazardous substances): None of the ingredients are listed.</p> <p>Section 313 (Specific toxic chemical listings): None of the ingredients are listed.</p> <p>TSCA (Toxic Substances Control Act): All ingredients are listed or exempt from listing.</p> <p>Chemicals known to cause cancer: None of the ingredients are listed.</p> <p>Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.</p> <p>Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.</p> <p>Chemicals known to developmental toxicity: None of the ingredients are listed.</p>
16	Other information, including date of preparation or last revision	SDS prepared on 02/08/2021