

### 1. Identification of chemicals

a. Name of chemicals	: Name: Krypton Trade name: Krypton
b. CAS-No.	: 7439-90-9
c. Synonyms	: No additional information available
d. Molecular formula	: Kr
e. Structural formula	: No additional information available
f. Purity	: 100 %
g. Significant impurities or additives	: None
h. Known uses	: Test gas/Calibration gas,Laboratory use,Laser gas,Industrial and professional uses. Perform risk assessment prior to use,Contact supplier for more information on uses.

### 2. Classification result

	Classification	Justification	Source
Physical hazards	Explosives, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Flammable gases, Not classified	Transport of Dangerous Goods (TDG) classification is Class 2.1. (UN 1056).	Transport of Dangerous Goods (TDG)
Physical hazards	Flammable aerosols, Not applicable	Not applicable. Not an aerosol product.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Flammable liquids, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Flammable solids, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Oxidizing Gases, Not classified	'Gases which cause or contribute to the combustion of other material more than air' means pure gases or gas mixtures with an oxidising power greater than 23.5% as determined by a method specified in ISO 10156 as amended or 10156-2 as amended. Coefficient of oxygen equivalency (Ci) : 0% Not classified.	Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169.
Physical hazards	Oxidizing liquids, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Oxidizing solids, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Gases under pressure : Compressed gas	A gas which, when packaged under pressure, is entirely gaseous at -50°C; including all gases with a critical temperature ≤-50°C. Critic temperature: -63.8°C	Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169.
Physical hazards	Self-reactive chemicals, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Pyrophoric liquids, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Pyrophoric solids, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Self-heating chemicals, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)

Physical hazards	Chemicals which, if in contact with water, emit flammables gases, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Organic peroxides, Not applicable	Not applicable for gases and gas mixtures.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Physical hazards	Corrosive to metals, Not applicable	No data available or no established test method suitable for gaseous substances.	The Industry Code of Practice on Chemical Classification and Hazard Communication (ICOP)
Health hazards	Acute toxicity, (Oral) Classification not possible	Lack of data for classification.	
Health hazards	Acute toxicity,(Dermal) Classification not possible	Lack of data for classification.	
Health hazards	Acute toxicity,(Inhalation) Classification not possible	Lack of data for classification.	
Health hazards	Skin corrosion or irritation, Classification not possible	Lack of data for classification.	
Health hazards	Serious eye damage or eye irritation, Classification not possible	Lack of data for classification.	
Health hazards	Respiratory sensitization, Classification not possible	Lack of data for classification.	
Health hazards	Skin sensitization, Classification not possible	Lack of data for classification.	
Health hazards	Germ cell mutagenicity, Classification not possible	Lack of data for classification.	
Health hazards	Carcinogenicity, Classification not possible	Lack of data for classification.	
Health hazards	Reproductive toxicity, Classification not possible	Lack of data for classification.	
Health hazards	Specific target organ toxicity – single exposure, Classification not possible	Lack of data for classification.	
Health hazards	Specific target organ toxicity- repeated exposure, Classification not possible	Lack of data for classification.	
Health hazards	Aspiration hazard, Classification not possible	Lack of data for classification.	
Environmental hazards	Hazardous to the aquatic environment – acute hazard, Classification not possible	Lack of data for classification.	
Environmental hazards	Hazardous to the aquatic environment– chronic hazard, Classification not possible	Lack of data for classification.	
Environmental hazards	Hazardous to the ozone layer, Classification not possible	Lack of data for classification.	

Remarks

Date of classification	05/12/2022
Name of classifier - Position	Anis Razlan (HSEQ Intern)
Approved by	Xiaojun Ho (Head of HSEQ)