

DANGEROUS GOODS (DG) and HAZARDOUS SUBSTANCES (HS) RISK ASSESSMENT

Administration	Date Completed: 16/05/2024
Department/Work Area Location: MATH: [151] Monadelphous EECE Lab	Responsible Work Area Manager/ Supervisor Stuart Mather / Jega Gurusamy
People involved in completion of this Risk Assessment:	
Name of Dangerous Goods or Hazardous Substance:	HFC Free Flammable Air Duster 400ml
Equipment being use	Soldering bench (sample cleaning)

Determine Dangerous Goods (DG) and Hazardous Substances (HS) Hazard and Risk Factors

Review SDS of DG / HS and answer the following questions:

















Question	Yes/No	Class:	Packaging Group:	Quantity:	Unit of Measure:
Is the substance classified as being Hazardous?	Yes	N/A	N/A	400	ml
Is the substance a Dangerous Good?	Yes	Division 2.1: Flammable gases	N/A		

Review SDS of DG / HS and document Risk and Safety Phrase:

Risk Phrases Eg. Heating may cause explosion	H222 Extremely flammable aerosol. H280 Contains gas under pressure; may explode if heated.
Safety Phrases Eg. Keep in cool place	P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P102 Keep out of reach of children.

Separation and Segregation – Compatibility Chart by ADGC

Note: Generally, Explosives and Radioactive Substances are incompatible with everything.

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		Class											
COMPRESSED GASES	2.1 Flammable	2		C	KA	S	S	S	S	S	I	KA	KA
	2.2 Non-flammable /Non-toxic	2		KA	C	KA	SM	S	SM	SM	S	SM	KA
FLAMMABLE LIQUIDS	and Combustible Liquids	3		S	KA	C	KA	S	S	S	I	KA	KA
FLAMMABLE SOLIDS	4.1 Flammable Solids	4		S	SM	KA	C	KA	S	S	S	KA	SM
	4.2 Spontaneusly Combustible	4		S	S	S	KA	C	KA	S	I	KA	KA
	4.3 Dangerous When Wet	4		S	SM	S	S	KA	C	KA	S	SM	SM
OXIDISING SUBSTANCES	5.1 Oxidising Agents	5		S	SM	S	S	S	KA	!	S	KA	KA
	5.2 Organic Peroxides	5		I	S	I	S	I	S	S	C	KA	KA
TOXIC SUBSTANCES		6		KA	SM	KA	KA	KA	SM	KA	KA	C	SM
CORROSIVE SUBSTANCES		8		KA	KA	KA	SM	KA	SM	KA	KA	SM	!

LEGEND

C	SHOULD BE COMPATIBLE. Consult the SDS or supplier about requirements for individual substances.	S	SHOULD BE SEGREGATED by at least 5m and kept in separate compounds or building compartments.	SM	SEGREGATION MAY BE NECESSARY. Consult the SDS or supplier.
!	COULD BE INCOMPATIBLE or react dangerously. Consult the SDS or supplier about requirements for individual substances.	I	ISOLATION REQUIRED. Dedicated stores or storage cabinets are recommended. Adequate separation from other buildings and boundaries is required.	KA	SHOULD BE KEPT APART by at least 3m. Consult the SDS or supplier.

Determine DG/HS Risk Factors: Tick ☒ the below boxes to for all identified risks

What form is the HS/DG in?	HS Hazards	DG Hazards	Exposure Routes
<input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Gas/Odour <input type="checkbox"/> Powder <input type="checkbox"/> Other (Describe):	Does the SDS make reference to any of the following HS hazards? <input type="checkbox"/> Toxic <input type="checkbox"/> Harmful <input type="checkbox"/> Corrosive <input type="checkbox"/> Irritant <input type="checkbox"/> Poisonous <input type="checkbox"/> Sensitiser (allergic reaction to skin) <input type="checkbox"/> Carcinogenic <input type="checkbox"/> Mutagenic <input type="checkbox"/> Teratogenic (may cause birth defects) <input type="checkbox"/> Other (Describe):	Does the SDS make reference to any of the following DG hazards? <input type="checkbox"/> Acid <input type="checkbox"/> Strong <input type="checkbox"/> Weak <input type="checkbox"/> Base <input type="checkbox"/> Strong <input type="checkbox"/> Weak <input type="checkbox"/> Acid oxidiser <input type="checkbox"/> Corrosive <input type="checkbox"/> Dangerous when wet <input type="checkbox"/> Explosive <input checked="" type="checkbox"/> Highly flammable <input type="checkbox"/> Organic peroxide <input type="checkbox"/> Oxidising agent <input type="checkbox"/> Spontaneously combustible <input type="checkbox"/> Unstable <input type="checkbox"/> Other (Describe):	Does the SDS make reference to any specific requirements managing possible exposure routes? <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/> Injection <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Other (Describe):
First Aid and Emergency	Health Monitoring	Handling and Usage	Storage
Does the SDS outline any specific first aid? <input type="checkbox"/> Transfer immediately to doctor/hospital <input checked="" type="checkbox"/> First aid supplies (eye wash, first aid kit etc.) <input type="checkbox"/> First aid equipment required <input type="checkbox"/> First aid training <input type="checkbox"/> Call Poison Information Centre <input checked="" type="checkbox"/> Do NOT induce vomiting <input checked="" type="checkbox"/> Give water <input type="checkbox"/> Medical emergency plan <input type="checkbox"/> Evacuation plan <input type="checkbox"/> Emergency Equipment <input type="checkbox"/> Other (Describe):	Does the SDS refer to any specific health monitoring requirements in being exposed to the HS/DG? <input type="checkbox"/> Health Surveillance <input type="checkbox"/> Air Monitoring <input type="checkbox"/> Other (Describe):	Does the SDS outline any specific requirements in handling/using the DG / HS <input checked="" type="checkbox"/> Wear PPE <input type="checkbox"/> Follow label instructions <input checked="" type="checkbox"/> Avoid inhalation <input checked="" type="checkbox"/> Avoid skin or eye contact <input type="checkbox"/> Only use in well-ventilated areas <input checked="" type="checkbox"/> Keep container sealed when not in use <input type="checkbox"/> Maintain personal hygiene standards before and after use <input type="checkbox"/> Keep away from ignition sources <input type="checkbox"/> Training required before use <input type="checkbox"/> Other (Describe):	Does the SDS refer to any specific safe storage requirements? <input type="checkbox"/> Ensure Correct labelling <input checked="" type="checkbox"/> Store in cool and dry area <input type="checkbox"/> Store in ventilated area <input checked="" type="checkbox"/> Protect from heat <input checked="" type="checkbox"/> Protect from ignition sources or open flames <input checked="" type="checkbox"/> Protect from sunlight <input type="checkbox"/> Refrigerate or freeze at specified temperature <input type="checkbox"/> Isolate/ Lock / Restrict Access <input type="checkbox"/> Separation and Segregation **See Compatibility Chart ** <input type="checkbox"/> Other (Describe):
Transport (DG Items Only)	Spill Management	Disposal	Other Risks
Which Australian Dangerous Goods Code (ADG Code) requirements apply to this DG? <input type="checkbox"/> Packaging requirements <input type="checkbox"/> Use of bulk containers, IBCs, freight containers and unit loads <input type="checkbox"/> Marking and placarding <input type="checkbox"/> Vehicle requirements <input type="checkbox"/> Segregation and stowage <input type="checkbox"/> Transfer of bulk dangerous goods <input type="checkbox"/> Safety equipment <input type="checkbox"/> Procedures during transport emergencies <input type="checkbox"/> Other (Describe):	Does the SDS make reference to any specific actions in managing HS/DG spills? <input type="checkbox"/> Spills management kit and PPE items <input type="checkbox"/> Isolate spill from water drainage systems <input type="checkbox"/> Apply absorbent material <input type="checkbox"/> Apply neutralising agent <input type="checkbox"/> Dilute spill with water <input type="checkbox"/> Report to environmental authority <input type="checkbox"/> If safe to do so, stop gas flow to avoid explosion and fire. <input type="checkbox"/> Spills management kit and PPE items <input type="checkbox"/> Other (Describe):	Does the SDS make reference to any specific actions in disposing of the HS/DG item? <input type="checkbox"/> Dilute with Water: <input type="checkbox"/> Dispose by domestic waste water system: <input type="checkbox"/> Separate from waste <input type="checkbox"/> Check local environmental laws <input type="checkbox"/> Store for next chemical waste disposal collection <input type="checkbox"/> Other (Describe): <input type="checkbox"/> Empty cylinders to be returned to manufacturer/supplier <input type="checkbox"/> Disposal by licensed disposal company <input type="checkbox"/> Empty containers to be disposed of as per product	Can anyone be injured or suffer ill health from exposure to other hazards while using the HS/DG <input type="checkbox"/> Manual handling <input type="checkbox"/> Plant <input type="checkbox"/> High Risk Work (HRW) <input type="checkbox"/> Permit to Work <input type="checkbox"/> Other (Describe): <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> **Note if risks related to manual handling, plant or HRW have been identified, please also consider completing a Risk Assessment, Permit to Work, Safe Work Method Statement (SWMS) templates etc </div>
Comments – Provide further comment on the risk factors identified:			

Risk Measures and Actions

Where risks or hazards have been identified above complete the following listing all controls that will be undertaken to reduce the risk rating:

Refer to [Assessment Matrix and Hierarchy of Controls](#) document to determine risk ratings and the most appropriate controls

Add additional pages if required.

[illegible]

INDUCTEES DECLARATION


I will comply with UWA's Safety and Health Policy and associated procedures and guidelines. I acknowledge receipt of this induction and have received the necessary information, instruction and training required to enable me to work safely.

[illegible]


PROJECT SUPERVISOR DECLARATION (if applicable)

Name: Jega Gurusamy	Signature: JG	Date: Click or tap to enter a date. 29/08/24
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LAB SUPERVISOR DECLARATION

Name:	Signature:	Date:
Stuart Mather		Click or tap to enter a date. 29/08/24

HEAD OF SCHOOL AUTHORISATION

Name: Tim Sercombe	Signature: 	Date: Click or tap to enter a date. 05/09/2024
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Email completed and signed form to School Operations Engineering schoolops-eng@uwa.edu.au