DANGEROUS GOODS (DG) and HAZARDOUS SUBSTANCES (HS) RISK ASSESSMENT				
Administration	Date Completed: 9/08/2024			
Department/Work Area Location:	Responsible Work Area Manager/ Supervisor			
MATH: [151] Monadelphous EECE Lab	Stuart Mather / Jega Gurusamy			
People involved in completion of this Risk Assessment:	Name and Position:			
Name of Dangerous Goods or Hazardous Substance:	Isopropyl Alcohol Cleaner			
Equipment being used	Solder flux cleaner and general cleaning solvent			

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	Choose an item.	Choose an item.	500		
Is the substance a Dangerous Good?	Yes	Class 3: Flammable liquids	Packing group II: Substances presenting medium danger	500	ml	
Review SDS of DG / HS and document Risk and Safety Phrase:						
Risk Phrases Eg. Heating may cause explosion	R36 - Irritating to eyes					
Safety Phrases Eg. Keep in cool place	·					

Separation and Segregation – Compatibility Chart by ADGC



Determine [OG/HS Risk Factors: Tick	☑the below boxes to for all ic	lentified risks
What form is the HS/DG in?	HS Hazards	DG Hazards	Exposure Routes
	Does the SDS make reference to any of the following HS hazards?	Does the SDS make reference to any of the following DG hazards?	Does the SDS make reference to any specific requirements managing possible exposure routes?
☑ Liquid	☐ Toxic	☐ Acid ☐ Strong ☐ Weak	☑ Inhalation
□ Solid	☐ Harmful	☐ Base ☐ Strong ☐ Weak	☐ Ingestion
Gas/Odour	☐ Corrosive	☐ Acid oxidiser	☐ Injection
☐ Powder	⊠ Irritant	□ Corrosive	⊠ Skin
☐ Other (Describe)	☐ Poisonous	☐ Dangerous when wet	⊠ Eye
	☐ Sensitiser (allergic reaction to skin)	□ Explosive	☐ Other (Describe):
	☐ Carcinogenic		
	☐ Mutagenic	☐ Organic peroxide	
	Teratogenic (may cause birth	☐ Oxidising agent	
	☐ defects) Other (Describe): Vapours may ☐ cause drowsiness and ☐ dizziness	□ Spontaneously combustible	
	dizzii 1000	☐ Unstable	
		☐ Other (Describe):	
		, ,	
First Aid and Emergency	Health Monitoring	Handling and Usage	Storage
Does the SDS outline any specific	Does the SDS refer to any specific	Does the SDS outline any specific	Does the SDS refer to any specific
first aid? _ Transfer immediately to	health monitoring requirements in being exposed to the HS/DG?	requirements in handling/using the DG / HS	safe storage requirements?
□ doctor/hospital	☐ Health Surveillance	☑ Wear PPE	⊠ Ensure Correct labelling
First aid supplies (eye wash, first aid kit etc.)	☐ Air Monitoring		Store in cool and dry area
First aid equipment required	Other (Describe)	⊠ Avoid inhalation	Store in ventilated area
☐ First aid training		Avoid skin or eye contact	□ Protect from heat □ Protect from heat
☐ Call Poison Information Centre		☐ Only use in well-ventilated areas	Protect from ignition sources or open flames
□ Do NOT induce vomiting		·	Protect from sunlight
☑ Give water		Maintain personal hygiene standards before and after use	Refrigerate or freeze at specified temperature
☐ Medical emergency plan		⊠ Keep away from ignition sources	☐ Isolate/ Lock / Restrict Access
□ Evacuation plan		☐ Training required before use	Separation and Segregation
□ Emergency Equipment		□ Other (Describe):	**See Compatibility Chart **
Other (Describe):			□ Other (Describe):
Transport (DG Items Only)	Spill Management	Disposal	Other Risks
Which Australian Dangerous Goods Code (ADG Code) requirements apply to this DG?	Does the SDS make reference to any specific actions in managing HS/DG spills?	Does the SDS make reference to any specific actions in disposing of the HS/DG item?	Can anyone be injured or suffer ill health from exposure to other hazards while using the HS/DG
☐ Packaging requirements	⊠ Spills management kit and PPE items	□ Dilute with Water:	
Use of bulk containers, IBCs, freight containers and unit loads	Isolate spill from water drainage systems	Dispose by domestic waste water system:	□ Plant
□ Marking and placarding	 ☒ Apply absorbent material 	Separate from waste	☐ High Risk Work (HRW)
□ Vehicle requirements	☐ Apply neutralising agent	 ☑ Check local environmental laws 	☐ Permit to Work
☐ Segregation and stowage	☐ Dilute spill with water	Store for next chemical waste disposal	☐ Other (Describe):
☐ Transfer of bulk dangerous goods	☐ Report to environmental authority	□ Collection □ Other (Describe):	
☐ Safety equipment	If safe to do so, stop gas flow to avoid explosion and fire.	Empty cylinders to be returned to manufacturer/supplier	
Procedures during transport	Spills management kit and PPE	, ,	**Note if risks related to manual
□ emergencies	items	☐ Disposal by licensed disposal company	handling, plant or HRW have been identified, please also
☐ Other (Describe):	☐ Other (Describe):	Empty containers to be disposed of as per product	consider completing a Risk Assessment, Permit to Work, Safe Work Method Statement (SWMS) templates etc
Comments – Provide further comm	ent 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 <u>Assessment Matrix and Hierarchy of Controls</u> document to determine risk ratings and the most appropriate controls Add additional pages if required.

Hazard/Risk	General Description of Hazard/Risk	Risk Rating Before Controls		Controls	Controls Implemented	Risk Rating After Controls		
Identified in Section B		Likelihood	Consequence	Risk Rating	More than one control may be required to effectively mitigate an identified hazard	Likelihood	Consequence	Risk Rating
Highly flammable	The substance is highly flammable and can easily ignite if exposed to an ignition source such as sparks, open flames, or hot surfaces. This poses a significant fire and explosion risk, especially in environments with inadequate ventilation.		Major	Major (Ma2)	Engineering Controls Only maximum of 500 ml is allowed in this lab at any time Ensure adequate room ventilation (airconditioning) is available Administrative Controls Keep the liquid away from heat/ignition sources. Training required before using solvent.	Unlikely	Major	Moderate (Mo5)
Irritating to eyes	The substance can cause irritation upon contact with the eyes leading to redness, and discomfort if not promptly washed out. Prolonged exposure without proper eye protection can exacerbate these effects.	Possible	Minor	Minor Mi3)	Administrative Controls - Provide training on the correct use of PPE and the importance of avoiding eye contact. PPE - Require the use of safety goggles or face shields when handling the substance.	Unlikely	Minor	Low (L5)
Vapours may cause drowsiness and dizziness	Inhalation of vapors from the	Possible	Minor	Minor Mi3)	Engineering Controls - Ensure good ventilation in areas where the substance is used. Administrative Controls - Train users to use the solvent only in well ventilated areas.	Unlikely	Minor	Low (L5)

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.					
Name(s):	Signature(s):	Date:			
PROJECT SUPERVISOR DECLARATION (if applicable)					
Name:	Signature:	D. Cliek entente enten e dete			
Jega Gurusamy	Signature.	Date: Click or tap to enter a date.			
	7.7	29/08/24			
LAB SUPERVISOR DECLARATION					
Name:	Signature:	Date: Click or tap to enter a date.			
Stuart Mather	33 Aut Ne .	29/08/24			
HEAD OF SCHOOL AUTHORISATION					
Name:	Signature:	Date: Click or tap to enter a date.			
Tim Sercombe	Lorane	05/09/2024			