DANGEROUS GOODS (DG) and HAZARDOUS SUBSTANCES (HS) RISK ASSESSMENT					
Administration	Date Completed: 16/05/2024				
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 of Dangerous Goods or Hazardous Substance:	Chip Quik Lead Free Solder Wire SMDIN52SN48 Chip Quik Tacky Flux SMD291 LOCTITE 362 99C 5C 0.5MM G unleaded solder wire				
Equipment being use	soldering station				

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	~45 (SMDIN52SN48) 10 (SMD291) 250 (LOCTITE 362)	g		
Is the substance a Dangerous Good?	No	N/A	N/A	N/A	N/A		
	Review SDS o	of DG / HS and o	document Risk and Sa	afety Phrase:			
Risk Phrases Eg. Heating may cause explosion	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation P102 Keep out of reach of children.						
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P233 Keep container tightly closed. P260 Do not breathe dust/fume/gas/mist/vapor/spray. P262 Do not get in eyes, on skin, or on clothing. P264 Wash hands thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P271 Use in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 In case of inadequate ventilation wear respiratory protection. P301/P330/P331/P310 IF SWALLOWED: Rinse mouth. Do NoT induce vomiting. Immediately call a POISON CENTER/Doctor. Get medical advice/attention if skin irritation or rash occurs or if you feel unwell. P304/P340/312 IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. P305/P351/338/P310 IF SYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call POISON CENTER/Doctor. P308/P313 IF EXPOSED OR CONCERNED: Get medical advice/attention. P342/P311 IF EXPERIENCING RESPIRATORY SYMPTOMS: Call POISON CENTER/Doctor. P362 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P405/Y404 Store in a dry place. Store in a closed container. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.							

Determine D	OG/HS Risk Factors: Tick		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
pasty, or liquid when heated	⊠ Sensitiser (allergic reaction to skin)	□ Explosive	☐ Other (Describe):
	☐ Carcinogenic	☐ Highly flammable	
	☐ Mutagenic	☐ Organic peroxide	
	Teratogenic (may cause birth defects)	☐ Oxidising agent	
	☐ Other (Describe):	☐ Spontaneously combustible	
		☐ Unstable	
		☐ Other (Describe):	
First Aid and Emergency	Health Monitoring	Handling and Usage	Storage
Does the SDS outline any specific first aid?	Does the SDS refer to any specific health monitoring requirements in being exposed to the HS/DG?	Does the SDS outline any specific requirements in handling/using the DG / HS	Does the SDS refer to any specific safe storage requirements?
	☐ Health Surveillance	⊠ Wear PPE	☐ Ensure Correct labelling
☐ First aid supplies (eye wash, first aid kit etc.)	☐ Air Monitoring	☐ Follow label instructions	Store in cool and dry area
\square First aid equipment required	☐ Other (Describe)		☐ Store in ventilated area
\square First aid training			☐ Protect from heat
☐ Call Poison Information Centre		□ Only use in well-ventilated areas	☐ Protect from ignition sources or open flames
☑ Do NOT induce vomiting		☐ Keep container sealed when not in use	☐ 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☐ Training required before use	☐ Separation and Segregation
□ Evacuation plan			☐ Separation and Segregation
☐ Emergency Equipment		☐ Other (Describe):	**See Compatibility Chart **
Other (Describe): IF INHALED: Remove person to fresh air. If not breathing, seek immediate medical attention.			☐ 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:	☐ Manual handling
Use of bulk containers, IBCs, freight containers and unit loads	☐ Isolate spill from water drainage systems	Dispose by domestic waste water system:	□ Plant
\square 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 collection	☐ Other (Describe):
☐ Transfer of bulk dangerous goods	☐ Report to environmental authority	☐ 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 emergencies	Spills management kit and PPE items	☐ Disposal by licensed disposal company	**Note if risks related to manual handling, plant or HRW have
☐ Other (Describe):	Other (Describe):	☐ Empty containers to be disposed of as per product	been identified, please also 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 Descripti		Risk Rating Before Controls			Controls Implemented	Risk Rating After Controls		
Identified in Section B	of Hazard/Risk	Likelihood	Consequence	Risk Rating	More than one control may be required to effectively mitigate an identified hazard	Likelihood	Consequence	Risk Rating
Irritant	Causes serious eye irritation	Possible	Moderate	Moderate (Mo2)	Engineering Controls - Use the portable fume extraction system - Ensure adequate room ventilation (airconditioning) is available Administrative Controls - Training required before use (Class/training from Makers Lab). PPE: - gloves, lab coat, safety glasses	Unlikely	Moderate	Minor (Mi6)
Harmful	Harmful if inhaled	Possible	Moderate	Moderate (Mo2)	Engineering Controls - Use the portable fume extraction system - Ensure adequate room ventilation (airconditioning) is available Administrative Controls - Training required before use (Class/training from Makers Lab).	Unlikely	Moderate	Minor (Mi6)
Harmful	Harmful if swallowed	Possible	Moderate	Moderate (Mo2)	Administrative Controls - Training required before use (Class/training from Makers Lab) Never handle the leaded solder wire without gloves PPE: - gloves, lab coat	Unlikely	Moderate	Minor (Mi6)
Irritant	May cause respiratory irritation	Possible	Moderate	Moderate (Mo2)	Administrative Controls - Training required before use (Class/training from Makers Lab). - Never handle the leaded solder wire without gloves PPE: - gloves, lab coat	Unlikely	Moderate	Minor (Mi6)
Irritant	Causes skin irritation	Possible	Minor	Minor (Mi3)	Administrative Controls	Unlikely	Minor	Low (L5)

					- Training required before use (Class/training from Makers Lab) Never handle the leaded solder wire without gloves			
					PPE: - gloves, lab coat			
Sensitiser	May cause an allergic skin reaction	Possible	Moderate	Moderate (Mo2)	Administrative Controls - Training required before use (Class/training from Makers Lab) Never handle the leaded solder wire without gloves	Unlikely	Moderate	Minor (Mi6)
					PPE: - gloves, lab coat			

INDUCTEES DECLARATION			
I will comply with UWA's Safety and Health Policy and asso and training required to enable me to work safely.	ociated procedures and guidelin	es. I acknowledge receipt of this induc	ction and have received the necessary information, instruction
Name(s):	Signature(s):	ı	Date:
PROJECT SUPERVISOR DECLARATION (if applicable)		0:	
Name: Jega Gurusamy		Signature:	Date: Click or tap to enter a date.
Jega Gurusarriy		Signature: 76	29/08/24
LAB SUPERVISOR DECLARATION			
Name:		Signature:	Date: Click or tap to enter a date. 29/08/24
Stuart Mather		33 Auther.	29/08/24
HEAD OF SCHOOL AUTHORISATION			
Name:		Signature: Q ()	Date: Click or tap to enter a date.
TIm Sercombe		Jorane	05/09/2024

Email completed and signed form to School Operations Engineering schoolops-eng@uwa.edu.au