

COSHH Assessment for:		HVO Renewable Diesel				Ref:	435
Assessor:	Dominic Reddall	Date:	May 2022	Next Review:	May 2025		
Describe the activity or work process:							
Renewable Diesel fuel is used to power various vehicles and large items of plant. This assessment covers general handling, transportation and refuelling processes and should be read in conjunction with the equipment manufacturer's instructions.							
What is the location of the activity or work process?							
Various site locations as per client specification and project plan.							
Identify the Persons at Risk:		Employees	☒	Contractors	☒	Public	☒
Name the substance involved in the process, the quantity and its manufacturer. (A copy of a current safety data sheet for this substance should be attached)							
Diesel from Prema Energy. The quantities to be used will be dependent on how long the equipment must be operated for. The smallest possible quantities will be transported to site and used.							
Explain why a safer alternative cannot be used:							
Equipment is designed to operate on diesel fuel therefore it cannot be substituted.							
Classification (tick all that apply):							
Physical Hazards							
Unstable Explosive	Flammable	Oxidising	Compressed Gas				
							
Applicable:	Applicable:	Applicable:	Applicable:				
Health Hazards						Environmental	
Toxic	Corrosive	Irritant	Resp. Sens/Health	Environmental			
							
Applicable:	Applicable:	Applicable:	Applicable:	☒	Applicable:		
Hazard Type:							
Gas	Vapour	Mist	Fume	Dust	Liquid	Solid	Other:
	☒				☒		
Route of Exposure:							
Inhalation	Skin	Eyes	Ingestion	Other (State)			
☒	☒	☒	☒				
Explosive Limits and Workplace Exposure Limits (WELs)							
Long-term exposure level (8hrTWA):				Short-term exposure level (15 mins):			
Detail Potential Health Risks:							
May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking.							
Control & Recovery Measures Actioned: (for example extraction, ventilation, training, supervision).							

Include special measures for vulnerable groups, such as disabled people and pregnant workers. Take account of those substances that are produced from activities undertaken by another employer's employees.					
Ventilation:			Accidental Release & Spillage Plan :		
Activities generally take place outdoors. Further assessment required for indoor activities.			All tanks to be banded with drip trays at refuelling points. Clear up spills using absorbant material and dispose of as hazardous waste.		
Special Transport:			Signage, provision of information and instruction :		
Fire Precautions/Extinguisher Type:			Environmental Considerations :		
Dry powder, carbon dioxide. Sand. Heavy foam and water fog for professional fire-fighters.					
Storage Required:			Disposal Issues:		
In a tank or a store suitable for combustible liquids. Take precautionary measures to prevent product spills into drains, the ground or waters. Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations. Retail batches are stored in tightly sealed, labelled containers which are impermeable to the product.			Empty containers may contain combustible product residues. Empty containers should be taken for local recycling or waste disposal		
Is health surveillance or monitoring required for foreseeable exposure potential?					
Routine health screening	No	Personal air monitoring	No	Background air monitoring	No
Personal Protective Equipment (state type and standard)					
Item	Tick	Requirement	Item	Tick	Requirement
					
		Not required for routine refuelling operations in outdoor or well ventilated areas.			Not generally required for routine refuelling operations.
	✓	Nitrile gloves to prevent skin contact.		✓	Issued workwear, long sleeve to prevent splashes onto skin.
	✓		Other		
First Aid Measures					
Inhalation: Inhalation is unlikely because of the low vapour pressure of the substance at ambient temperature. If breathed in, move person into fresh air. Consult a physician. Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Eye contact: Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. Ingestion: DO NOT INDUCE VOMITING. In case of ingestion, always assume that aspiration has occurred. Consult a physician (risk of aspiration into the lungs especially if nausea or irritation occurs)					
Disposal Instructions for substance and empty containers:					
Hazardous Waste		✓	General Waste		
Return to Depot		✓	Return to Supplier		
Other/Notes:		Empty containers should be taken for local recycling or waste disposal			
Is exposure adequately controlled?				Yes	✓
Risk Rating Following Above Controls:		High	Med	Low	✓