





COSHH Activity Assessment Report



Substance					
Product Name	Low/Ultra Low Sulphur Diesel		CAS Number(s)	Complex mixture of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons, predominantly in the C9 to C25 range. 68334-30-5	
Trade Name / Synonym(s)	Diesel (ULSD/Gasoil/GO)		COSHH INDEX Ref No.	089	
WEL	Fuels, diesel LTEL 100mg/m3 Kerosine (petroleum), hydrodesulphurised LTEL 200mg/m3 Cumene LTEL 25ppm 125mg/m3 STEL 50ppm 250mg/m3		Chemical Identity	Fuels, diesel Kerosine (petroleum), hydrodesulphurised	
Recommended Use And Restrictions On Use	Fuel for diesel engines				
Record Details					
Reference	089- North East Waste		Assessor Name	Lydia Hughes	
Org Unit	DC -> 1. COSHH Generic RA -> DCWW -> Operations -> Waste Water Services -> Treatment -> North East Catchment		Job Title	Lead COSHH Assessor	
Location	North East Waste		Assessment Date	17/08/2021	
Authorised By	Trystan Lewis-Williams		Date Authorised	23/05/2018	
Description	Low/Ultra Low Sulphur Diesel				
Hazards					
Classification Type	Classification	Category	Hazard Label	Signal Word	Hazard Statement
Physical	Flammable Liquids	Category 3		Warning	H226: Flammable liquid and vapour
Health	Skin Corrosion/Irritation	Category 2		Warning	H315: Causes skin irritation

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Health	Acute Toxicity: Inhalation	Category 4		Warning	H332: Harmful if inhaled
Health	Carcinogenicity	Category 2		Warning	H351: Suspected of causing cancer
Health	Specific Target Organ Toxicity (Repeated Exposure)	Category 2		Warning	H373: May cause damage to organs through prolonged or repeated exposure
Environmental	Aquatic Toxicity (Chronic)	Category 2			H411: Toxic to aquatic life with long lasting effects

Tasks

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Activity Type & Activity Description	Persons At Risk & How Is Person At Risk	Control Measures	Potential Risk Factor	Additional Control Measures	Residual Risk Factor	
Use Fuelling vehicles	Colleagues Contact, inhalation	PPE as below NB safety glasses will be used when there is a potential for splashes Ensure good ventilation. Keep away from sources of ignition. Earth bond when transferring from one container to another.	12 - High Risk		4 - Low Risk	
Quantity		<div>  <p>Eye protection must be worn</p> <p>Safety glasses</p> </div> <div>  <p>Hand protection must be worn</p> <p>Disposable nitrile gloves</p> </div>				
Frequency Of Use						
Duration Of Use						
Environment	Enclosed Space					
Route Of Entry	Contact					
State	Liquid					
Approved For Use Within Area?	No					
First Aid					Seek Immediate Attention	
Inhalation	Remove to fresh air. If rapid recovery does not occur, take patient to nearest medical facility for additional treatment.				No	
Skin Contact	Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.				No	
Eye Contact	Remove contact lenses. Wash with copious amounts of water for several minutes. If irritation persists, seek medical assistance.				No	
Ingestion	If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. Give nothing by mouth				Yes	
Injection					No	
Storage						
Storage Measures	Store in a cool, dry and well-ventilated place. Keep protected from direct sunlight and temperatures over 50oC. Maximum size of plastic can is 5 litres.					

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Emergency Measures			
Loss of containment measures	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal. Do not flush away traces using water, use detergent to complete cleaning.		
Fire Fighting			
Fire Fighting Measures	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.		
Unsuitable Fire Fighting Measures	Do not use direct water jets on the burning product as they could cause a steam explosion and spread of the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.		
Transport			
	Transport Hazard Class(es)		Transport Special Precautions
	Class No 3 UN No 1202		If volume transported 1000 litres or less - Limited Scope, if above Full Scope. Please refer to HSP701 Carriage of Dangerous Goods Procedure for further information.
Conclusion			
Conclusion	Medium		
Have you considered using an alternative substance?	Yes		
Reasoning			
Overall Potential Risk Level	12	Overall Residual Risk Level	4

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Substance					
Product Name	Ferric Sulphate PIX 122 & 30-44%		CAS Number(s)	Ferric Sulphate 10028-22-5 Ferrous Sulphate 7720-78-7 Manganese Sulphate 77785-87-7	
Trade Name / Synonym(s)	iron (III) Sulphate		COSHH INDEX Ref No.	040	
WEL	Ferric/Ferrous Sulphate (as Fe) ----- Long-term (8-hr TWA ref. period) 1 mg/m3 Short-term (15 min. ref. period) 2 mg/m3		Chemical Identity	Ferric Sulphate 40-50% Ferrous Sulphate 0.1-1.5%, Manganese Sulphate ≥0≤1.0%	
Recommended Use And Restrictions On Use	Water treatment				
Record Details					
Reference	040 - North East Waste		Assessor Name	Lydia Hughes	
Org Unit	DC -> 1. COSHH Generic RA -> DCWW -> Operations -> Waste Water Services -> Treatment -> North East Catchment		Job Title	Lead COSHH Assessor	
Location	Ty Gwyn WWTW Mold WWTW Cefn Mawr WWTW Llangollen WWTW Farndon WWTW Gresford WWTW Hope WWTW Lavister WWTW Tattenhall WWTW Whitchurch WWTW Malpas WWTW Queensferry WWTW		Assessment Date	22/07/2020	
Authorised By	Henryk J. Freyer		Date Authorised	27/04/2017	
Description	Ferric Sulphate PIX 122 & 30-44%				
Hazards					
Classification Type	Classification	Category	Hazard Label	Signal Word	Hazard Statement
Health	Serious Eye Damage/Eye Irritation	Category 1		Danger	H318: Causes serious eye damage

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Health	Acute Toxicity: Oral	Category 4		Warning	H302: Harmful if swallowed
Health	Skin Corrosion/Irritation	Category 2		Warning	H315: Causes skin irritation

Tasks


Activity Type & Activity Description	Persons At Risk & How Is Person At Risk	Control Measures	Potential Risk Factor	Additional Control Measures	Residual Risk Factor
Use Wastewater treatment	Site colleagues Contact	PPE as below required where there is potential of contact with the substance - substance is normally enclosed within the delivery and dosing system. Avoid contact with skin, eyes and clothing. The work place and work methods shall be organized in such a way that direct contact with the product is prevented or minimized. Eye wash bottle or emergency eye-wash fountain must be found in the work place. Ensure adequate ventilation.	12 - High Risk	Safe Working Method PPE	2 - Low Risk
Quantity		<div>     </div>			
Frequency Of Use					
Duration Of Use					
Environment	Enclosed Space				
Route Of Entry	Contact				
State	Liquid				
Approved For Use Within Area?	Yes				

First Aid

Seek Immediate Attention

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Inhalation	Remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Call a physician immediately.	Yes
Skin Contact	Take off contaminated clothing and shoes immediately. Rinse with plenty of water. If symptoms persist, call a physician. Burns must be treated by a physician. Wash contaminated clothing before re-use.	No
Eye Contact	Important! Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If possible use lukewarm water. Call a physician and/or immediately transport to an emergency facility.	Yes
Ingestion	Rinse mouth with water. Drink 1 or 2 glasses of water or milk. Do NOT induce vomiting. Consult a physician.	Yes
Injection	Not likely route of exposure	No
Storage		
Storage Measures	Keep tightly closed in a dry and cool place. Keep away from heat. Keep in a well-ventilated place. Keep at temperatures above 0°C.	
Emergency Measures		
Loss of containment measures	Spillage a. Small Dilute residues with water and then neutralize with lime powder to a solid consistency. Shovel or sweep up and transfer to suitable closed containers. Flush spillage areas with plenty of water. b. Large Remove spill using a vacuum tanker, then as above.	
Fire Fighting		
Fire Fighting Measures	In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Heating above the decomposition temperature will release toxic gases, Sulphur oxides (SOx).	
Unsuitable Fire Fighting Measures	None indicated	
Transport		
	Transport Hazard Class(es)	Transport Special Precautions
	Class 8 UN Ref. 3264	ADR Packaging Group III Refer to Carriage of Dangerous Goods Procedure
Conclusion		
Conclusion	Risk of exposure is very small if Safe working method is followed and all PPE is work correctly	
Have you considered using an alternative substance?	Yes	




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Reasoning	Process specific		
Overall Potential Risk Level	12	Overall Residual Risk Level	2



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Substance					
Product Name	Flopam EM - 4 series, 840 series, 640 series and FB508	CAS Number(s)	920-107-4		
Trade Name / Synonym(s)	Flopam EM - 4 series, 840 series, 640 series and FB508	COSHH INDEX Ref No.	043		
WEL	As dust LTEL 10mg/m3	Chemical Identity			
Recommended Use And Restrictions On Use	sludge thickener				
Record Details					
Reference	043 North East Waste	Assessor Name	Lydia Hughes		
Org Unit	DC -> 1. COSHH Generic RA -> DCWW -> Operations -> Waste Water Services -> Treatment -> North East Catchment	Job Title	Lead COSHH Assessor		
Location	North East Waste	Assessment Date	12/08/2021		
Authorised By		Date Authorised			
Description	Flopam EM - 4 series, 840 series, 640 series and FB508				
Hazards					
Classification Type	Classification	Category	Hazard Label	Signal Word	Hazard Statement
Health	Acute Toxicity: Oral	Category 4		Warning	H302: Harmful if swallowed
Health	Aspiration Hazard	Category 1		Danger	H304: May be fatal if swallowed and enters airways
Health	Serious Eye Damage/Eye Irritation	Category 2A		Warning	H319: Causes serious eye irritation
Tasks					

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Activity Type & Activity Description	Persons At Risk & How Is Person At Risk	Control Measures	Potential Risk Factor	Additional Control Measures	Residual Risk Factor	
Use Processing aid for water treatment	Site colleagues Contact	PPE as below. Ensure adequate ventilation.	6 - Medium Risk		4 - Low Risk	
Quantity		<div>   </div> <div> Eye protection must be worn Safety glasses </div> <div> Hand protection must be worn Disposable nitrile gloves </div>				
Frequency Of Use						
Duration Of Use						
Environment	Enclosed Space					
Route Of Entry	Contact					
State	Liquid					
Approved For Use Within Area?	Yes					
First Aid					Seek Immediate Attention	
Inhalation	Move to fresh air.				No	
Skin Contact	Wash off with soap and water, while removing all contaminated clothing and shoes. Get medical attention if irritation develops & persists.				No	
Eye Contact	Immediately flush eyes with water, also under the eye-lids, for at least 15 minutes. Obtain medical assistance immediately.				Yes	
Ingestion	Rinse mouth with water. DO NOT induce vomiting. Seek medical attention immediately.				Yes	
Injection					No	
Storage						
Storage Measures	Keep away from heat and sources of ignition. Keep containers closed when not in use.					
Emergency Measures						
Loss of containment measures	DO NOT FLUSH WITH WATER. Soak up with inert absorbent material and transfer to suitable closed containers for disposal. After cleaning flush away traces with water.					
Fire Fighting						
Fire Fighting Measures	Water, water spray, foam, carbon dioxide, dry powder					

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Unsuitable Fire Fighting Measures	None		
Transport			
	Transport Hazard Class(es)	Transport Special Precautions	
Conclusion			
Conclusion	Low		
Have you considered using an alternative substance?	Yes		
Reasoning			
Overall Potential Risk Level	6	Overall Residual Risk Level	4



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Substance					
Product Name	Flopam FO 4498 SSH		CAS Number(s)	Mixture - see SDS	
Trade Name / Synonym(s)	Flopam FO 4498 SSH		COSHH INDEX Ref No.	1455	
WEL	N/A		Chemical Identity	N/A	
Recommended Use And Restrictions On Use	Sludeg thickener				
Record Details					
Reference	1455 - North East Waste		Assessor Name	Lydia Hughes	
Org Unit	DC -> 1. COSHH Generic RA -> DCWW -> Operations -> Waste Water Services -> Treatment -> North East Catchment		Job Title	Lead COSHH Assessor	
Location	Chester WWTW Queensferry WWTW		Assessment Date	07/09/2021	
Authorised By			Date Authorised		
Description	Flopam FO 4498 SSH				
Hazards					
Classification Type	Classification	Category	Hazard Label	Signal Word	Hazard Statement
Not Classified	Not Classified	Not Classified			
Tasks					

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Activity Type & Activity Description	Persons At Risk & How Is Person At Risk	Control Measures	Potential Risk Factor	Additional Control Measures	Residual Risk Factor			
Use Sludge thickener	Site colleagues Contact. Also renders surfaces slippery when in contact with water.	PPE as below. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust. Wash hands before breaks and at the end of work day. Ensure adequate ventilation.	4 - Low Risk		1 - Low Risk			
Quantity		<div>  <p>Eye protection must be worn</p> <p>Safety glasses</p> </div> <div>  <p>Hand protection must be worn</p> <p>Disposable nitrile gloves</p> </div>						
Frequency Of Use								
Duration Of Use								
Environment	Enclosed Space							
Route Of Entry	Contact							
State	Dust							
Approved For Use Within Area?	Yes							
First Aid					Seek Immediate Attention			
Inhalation	Move to fresh air. Get medical attention if symptoms occur.				No			
Skin Contact	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.				No			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids. Get medical attention.				Yes			
Ingestion	Rinse mouth. If conscious, give the victim plenty of water to drink. Induce vomiting, but only if victim is fully conscious.				No			
Injection					No			
Storage								
Storage Measures	Keep in a dry place. Incompatible with oxidizing agents.							
Emergency Measures								
Loss of containment measures	Do not flush with water. Clean up promptly by sweeping or vacuum. For large spills prevent unauthorised access, sweep up and shovel into suitable containers for disposal. After cleaning flush away traces with water.							
Fire Fighting								
Fire Fighting Measures	Water, foam, CO2, dry powder.							

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Unsuitable Fire Fighting Measures	N/A		
Transport			
	Transport Hazard Class(es)		Transport Special Precautions
	N/A		N/A
Conclusion			
Conclusion			
Have you considered using an alternative substance?	No		
Reasoning			
Overall Potential Risk Level	4	Overall Residual Risk Level	1