








COSHH Risk Assessment Vantage Drain Services

Section 1 – General Information						
Task/Activity:	Fuelling general Equipment		Ref:	VDS050722-1P		
Assessors Name	M D Services Ltd		Assessment Date			
			05/07/2022			
Description of Task / Activity			Next Review			
Fuelling works equipment (Petrol Driven units) using petrol can and spout			Every 12 months		<input checked="" type="checkbox"/>	
			Every 6 Months		<input type="checkbox"/>	
			Immediately after any task/activity changes and/or incidents/accidents		<input type="checkbox"/>	
How often is the task undertaken (daily, weekly etc): as required (Daily)						
Task Duration (approximately): 10 mins			Numbers of persons involved: 2			
Section 2 – Hazardous Substance Information						
Hazardous Substance(s) used (trade name, ingredients etc):		Fuels, Petrol				
How is the Substance(s) used (Sprayed, diluted, brushed, mixed, applied by hand etc):		Poured using approved fuel container and spout				
Indicate the Hazard(s) associated with Hazardous Substances used:						
						
Harmful to the environment	Flammable	Oxidising	Corrosive	Acute Toxic	Health Hazard	Serious Health Hazard
Indicate what form(s) the Hazardous Substances take:						
Gas	Vapour	Mist/Aerosol	Fume	Dust	Liquid	Solid
Indicate what Route(s) of Exposure the Hazardous Substances take:						
Inhalation	Ingestion	Absorption (Skin)		Instillation (Eyes)	Penetration	
Workplace Exposure Limits (WEL) refer to MSDS and/or HSE Publication EH40						
LTEL (8 hr TWA)	PPM or Mg/M ³		STEL (15 min)	PPM or Mg/M ³		
	N/A			N/A		
List the Risks to Health from Exposure to the Hazardous Substance(s)						
List all relevant Hazard Statements:	H224 -- Flammable liquids H304 -- Aspiration Hazard H315 -- Skin corrosion/irritation H336 -- Specific target organ toxicity (single exposure) H340 -- Germ cell mutagenicity H350 -- Carcinogenicity H361d -- Reproductive toxicity H361f -- Reproductive toxicity H371 -- Specific target organ toxicity (single exposure)					

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	H411 -- Hazardous to the aquatic environment, chronic toxicity
List all relevant Precautionary Statements:	<p>P201 - Obtain special instructions before use</p> <p>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</p> <p>P273 - Avoid release to the environment</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician</p> <p>P331 - Do NOT induce vomiting</p> <p>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed</p>

Section 3 – Risk Assessment

Who Might Be Harmed?

Staff:	<input checked="" type="checkbox"/>	Contractors:	<input type="checkbox"/>	Members of the Public:	<input checked="" type="checkbox"/>
Visitors:	<input type="checkbox"/>	Others: (please note)	<input type="text"/>		

Estimation of the Toxic Severity (Dose)

(1) Quantity Used:	Score	(2) Health Hazard:	Score
Small: Quantities up to 1g or ml	1	Low Hazard: Includes Hazard Statements: H313, H315, H316, H319, H320, H333, H335, H336	1
Medium: Quantities between 1 to 150g or ml	2	Medium Hazard: Includes Hazard Statements: H303, H311, H314, H317, H318, H332, H334, H371, H375	2
Large: Quantities over 150g or ml	3	High Hazard: Includes Hazard Statements: H300, H301, H302, H304, H305, H310, H330, H331, H340, H341, H350, H351, H360, H361, H362, H370, H372	3
Score 1:	3	Score 2:	3

Estimation of the Probability of Exposure

(3) Dustiness/Volatility of Substance	Score	(4) Duration of Exposure	Score
Low: <u>Solids</u> Materials that do not break up easily with little or no dusts observed during use <u>Liquids</u> Boiling Point over 150°C	1	Short Exposure: Short periods measured in minutes & where any WEL is not exceeded at any time	1
Medium: <u>Solids</u> Crystalline or granular materials with minimal dusts or dusts which settle out quickly <u>Liquids</u> Boiling Point between 50 & 150°C	2	Medium Exposure: Periods exceeding 1 hour but not exceeding 4 hrs	2
High: <u>Solids</u> Fine, light powders or fibres with dusts which remain airborne for long periods <u>Liquids</u> Boiling Point below 50°C <u>All Gases, Mists, Fumes & Aerosols</u>	3	Long Exposure: Full working shift (over 4 hrs) & if the WEL is exceeded at any time	3
Score 3:	3	Score 4:	1

Risk Rating

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Score 1: <input type="text" value="3"/>	Score 3: <input type="text" value="3"/>	A <input type="text" value="6"/> X B <input type="text" value="4"/> = <input type="text" value="24"/>	0-4: Tolerable 5-12: Medium Risk 13-20: High Risk 21+: Extreme Risk
+ Score 2: <input type="text" value="3"/>	+ Score 4: <input type="text" value="1"/>		
= Total A <input type="text" value="6"/>	= Total B <input type="text" value="4"/>		

Scores of 0 – 4 indicate a tolerable risk where standard controls are in place (including following the manufacturers instructions and basic hygiene procedures)

Scores over 4 will require additional control measures (complete section 4)

Tasks scoring over 21 must be stopped immediately until further controls can be implemented

Are Additional Controls required? YES NO

Is it possible to use a less harmful substance to do the work? YES NO

Remember: if a safer alternative is available, consider using it, unless you have a valid reason for continuing to use your current substance.

Section 4 – Controls

Prevention of Exposure

Can the Hazardous Substance(s) be <u>eliminated</u> from the process?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:
Are measures in place to <u>exclude non essential personnel</u> from the area?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Give Details: SIGNAGE IS USED AT AREAS PROHIBITING NON AUTHORISED PERSONS.

Control of Exposure

Can the <u>quantities</u> of the hazardous substances be reduced?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:
Can the <u>form</u> of the Hazardous Substance(s) be changed to make it safer (i.e. substituting powder for pellets etc)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:
Can the <u>exposure time</u> of workers be reduced?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:
Can natural <u>ventilation</u> in the work area be improved (i.e. opening windows etc)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Give Details: REFUELLING OF MACHINERY CAN ONLY TAKE PLACE OUTSIDE IN THE FRESH AIR.

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Is Local Exhaust Ventilation (LEV) required?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:
Does any part of the process need to be partially or totally enclosed?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:
Administration Controls		
Do vulnerable persons need to be excluded from this activity or area (i.e. nursing mothers etc)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Give Details: NO VULNERABLE PERSONS SCHOOL LEAVING AGE (under 18) OR EXPECTANT MOTHERS PERMITTED TO CARRY OUT THESE TASKS
Is any special training required for the task and/or the Hazardous Substance(s) used?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Give Details: ALL EMPLOYEES RECEIVE TOOLBOX TALKS REGARDING THE SAFE USE OF FUEL
Are any warning signs, notices and/or barriers required?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Give Details: STORAGE UNITS CONTAIN MANDATORY SIGNS WITH DO/ DO NOT REQUIREMENTS

Section 4 – Controls





PPE - Eye/Face Protection (Instillation & Absorption)

	Type & Standard:		Type & Standard:
Goggles		Full Face Visor	

RPE - Respiratory Protective Equipment (Inhalation & Ingestion)

	Type & Standard:		Type & Standard:
Dust Mask		Respirator	
	Type & Standard:		
BA Set			

PPE - Skin & Body Protection (Absorption)

	X	Type & Standard: Nitrile gloves (EN 374)		Type & Standard:
Gloves			Overalls	
		Type & Standard: STEEL TOE CAPPED LACED BOOTS EN ISO 20345:2011		Type & Standard:
Safety Footwear			Other	

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Section 5 – Additional Controls

Do measures need to be taken to <u>control sources of ignition</u> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Give Details: NO SMOKING PERMITTED DURING ANY TIME USING THIS EQUIPMENT. THE MACHINERY IS REQUIRED TO BE LEFT FOR 10 MINS BEFORE FUELLING TAKES PLACE						
Are there any materials that will create an <u>additional hazard</u> if exposed to the Hazardous Substance(s)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:						
Is <u>Exposure Monitoring</u> required (in line with Reg 10 of COSHH)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:						
Is <u>Health Surveillance</u> required (in line with Reg 11 of COSHH)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Give Details:						
Lone Working Allowed? Permit to Work Required?	<table border="1" style="float: right; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #00ff00;">Yes</th> <th style="background-color: #ff0000;">No</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; color: blue;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center; color: blue;">X</td> </tr> </tbody> </table>		Yes	No	X			X
Yes	No							
X								
	X							

Section 6 – Safe System of Work

Detail how the task will be completed safely:

NO SMOKING PERMITTED

1. Turn off Equipment and allow to cool for 10 mins.
2. Don gloves.
3. Open petrol can and attach filler spout.
4. Remove fuel cap.
5. Place filler spout into unit fuel tank.
6. Pour fuel in slowly ensuring no over fill happens.
7. Once fuel tank is full remove spout from tank with paper towel at end to catch any drips.
8. Replace fuel cap.
9. Remove spout from fuel can.
10. Close fuel can
11. Any spillages have to be mopped up using available spill kit and staff made aware.
12. Remove and dispose of gloves in the provided bin.

Equipment/Stores Required:

List all stores and/or equipment required for the task: **PETROL APPROVED FUEL CAN TO UN 6210/3A1, AND STORED ON SITE WITHIN A FLAM BOX WITH UPPER AND LOWER VENTILATION TO ENSURE NO BUILD UP OF EXPLOSIVE GASES.**

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Section 7 – Emergency Information

What actions should be taken in the event of any fires involving the substance?

EXTINGUISHING MEDIA

DRY CHEMICAL, CARBON DIOXIDE, OR FOAM IS RECOMMENDED. WATER SPRAY IS RECOMMENDED TO COOL OR PROTECT EXPOSED MATERIALS OR STRUCTURES. CARBON DIOXIDE CAN DISPLACE OXYGEN. USE CAUTION WHEN APPLYING CARBON DIOXIDE IN CONFINED SPACES. SIMULTANEOUS USE OF FOAM AND WATER ON THE SAME SURFACE IS TO BE AVOIDED AS WATER DESTROYS THE FOAM. WATER MAY BE INEFFECTIVE FOR EXTINGUISHMENT, UNLESS USED UNDER FAVOURABLE CONDITIONS BY EXPERIENCED FIRE FIGHTERS.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

UNUSUAL FIRE & EXPLOSION HAZARDS: EXTREMELY FLAMMABLE THIS MATERIAL CAN BE IGNITED BY HEAT, SPARKS, FLAMES, OR OTHER SOURCES OF IGNITION (E.G., STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT, AND ELECTRONIC DEVICES SUCH AS CELL PHONES, COMPUTERS, CALCULATORS, AND PAGERS WHICH HAVE NOT BEEN CERTIFIED AS INTRINSICALLY SAFE) VAPOURS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY CAN IGNITE, FLASH BACK, OR EXPLODE. MAY CREATE VAPOUR/AIR EXPLOSION HAZARD INDOORS, IN CONFINED SPACES, OUTDOORS, OR IN SEWERS. THIS PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE WATER. VAPOURS ARE HEAVIER THAN AIR AND CAN ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT PROPERLY COOLED, IT CAN RUPTURE IN THE HEAT OF A FIRE.

Fire Extinguisher type(s) that can be used?

STRONG WATER JET.

First Aid: What actions should be taken if the substance is:

Inhaled:

If respiratory symptoms develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel. If symptoms persist, seek medical attention.

Ingested:

Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

In Contact with the Skin:

Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops, seek medical attention. Wash contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician.

In Contact with the Eyes:

If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Spillages: How should accidental release/spillages of this substance be dealt with?

Personal precautions, protective equipment and emergency procedures

Extremely flammable Spillages of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition and hot metal surfaces away from spill/release if safe to do so. The use of explosion-proof electrical equipment is recommended. Stay upwind and away from spill/ release. Avoid direct contact with material. For large spillages, notify persons downwind of the spill/ release, isolate immediate hazard area and keep unauthorised personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant.

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Environmental precautions

Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorised drainage systems, and natural waterways. Use foam on spills to minimise vapours Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and material for containment and cleaning up

Notify relevant authorities in accordance with all applicable regulations. Immediate clean-up of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken

Section 8 – Summary

Have the persons completing this task been provided with sufficient **information and training*** to complete it safely? YES NO

Are all of the identified **controls in place and effective**? YES NO

Are all hazards to health **adequately controlled**? YES NO

* As a minimum, ensure a copy of this assessment (and any relevant MSDS) is available to persons carrying out this task

Section 9 – Document Control / Authorisation

Checked and Authorised By (Name) :	Checked and Authorised By: (Sign)	Date:
Matthew Duffy, Grad IOSH	<i>M. Duffy</i>	05/07/2022

Section 10 – Record of Training

The following people have been inducted on this COSHH Assessment and associated Safe System of Work (SSoW) and have been given the opportunity to ask questions. They agree to comply with the specified arrangements and control measures and will seek further advice if the work activity changes and/or the agreed controls cannot be implemented for any reason.

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Name	Date	Signature

- This form aids in assessing the risks associated with the use of chemicals and other substances hazardous to health
- It does not address the risks associated with biological agents or ionising radiation
- With respect to DSEAR, this form may be used to assess risks arising from small scale operations where hazard zoning is not necessary and the controls required largely mirror those in the COSHH Regulations
- This form is not suitable for assessing flammability and/or explosion risks from large scale operations or where hazard zoning is required (as this will require a more detailed assessment)



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