














2.12 OIL – Hydraulic Oil

<h3>Hydraulic Oil –</h3> <p>Active Ingredients: Lubricating Oils (petroleum), Base oil</p>		Hazard Classification:	
			
		Health Hazard	Toxic to the Environment
Description of Work: Product is used under pressure to power machine hydraulic systems. <u>Primary</u> route of exposure will be broken or leaking hydraulic lines and subsequent clean up, however this is infrequent. Method of use is pouring and pumping. Other exposure will be during servicing, approximately 5L, 4 times a year and during maintenance exposure can occur daily.		Location of Work: Onsite or in a workshop 	
Persons at Risk: Employees <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Public <input type="checkbox"/>			
Hazard Type: Gas <input type="checkbox"/> Vapour <input checked="" type="checkbox"/> Mist <input checked="" type="checkbox"/> Fume <input checked="" type="checkbox"/> Dust <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/>			
Routes of Exposure	Health Risks:	Control Measures	
Inhalation 	No significant health hazards identified. Strong concentrations of vapour and spray may be irritating to the nose and throat.	If inhaled and breathing difficulty exists person should be moved outside/remain outside in the fresh air. Get medical advice if irritation continues.	
Ingestion 	Ingestion may cause nausea and vomiting.	Do not induce vomiting. Seek medical advice if irritation or symptoms persist.	
Skin Absorption 	No significant health hazards identified may cause irritation to skin. Repeated or prolonged exposure with used oils may cause skin diseases, dermatitis and skin cancer.	Wash skin with soap and water, change any contaminated clothing and launder before use. Seek medical attention if irritation or symptoms persist.	
Skin Injection 	Pressurised hydraulic oil is released with such force that it can easily cut human skin. The mist jet can be so fine that it cannot be seen. If hydraulic oil is injected under the skin through exposure to a leaking pressurised hydraulic oil system, there is a major risk to health . Initial symptoms may be absent or minimal; however, any oil injected will poison and eat away all tissue it comes into contact with.	Person must immediately get medical advice and be evaluated by a doctor as a surgical emergency, regardless of the appearance of the wound or its size. Early surgical treatment may significantly reduce the extent of the injury. Every minute of delay is one step towards amputation.	
Eye Contact 	No significant health hazards identified. May cause irritation.	Immediately flush eyes with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation or symptoms persist.	
Control Measures Personal Protective Equipment:			
Wear oil resistant gloves approved to EN374 	Wear safety goggles/glasses approved to EN166 	Wear closed long sleeved protective clothing 	Wear safety footwear approved to EN20345 

Control Measures - Handling, Storage and Disposal:

Handling: Wear appropriate personal protective equipment, no special precautions necessary if used correctly, avoid contact with skin and eyes, and maintain good hygiene standards. Adopt best manual handling considerations when handling, carrying and dispensing. Ensure there is adequate ventilation when being used in workshops.



Storage: All containers to be clearly labelled and closed when not in use. Keep portable containers away from heat and out of direct sunlight. Large drums should be stored on their sides on racks in cool, dry and well ventilated conditions. Avoid over stacking. Keep containers away from flame or other ignition sources.

Avoid Conditions and Storage with Incompatible Materials: Avoid contact with strong oxidising agents, acids and halogens, keep away from flames or other ignition sources. Do not expose to temperatures that exceed 50°C/122°F.

Disposal: Dispose of surplus and non-recyclable containers via a licensed waste disposal contractor.

Control Measures - Accidental Release:

Personal precautions: Use suitable personal protective equipment, do not touch or walk through the spilt material. Danger of slipping on leaked/spilled products.



Environmental precautions: Do not allow to enter drainage system, sewer systems, surface water or water courses. Alert SEPA/Environmental Agency if a spillage occurs. Toxic to aquatic organisms, may cause long term adverse effects in the environment.

Spills and clean up methods: Contain spills, absorb with a liquid-binding material, sand, sawdust, diatomite, universal binders and dispose of in suitable containers.

Control Measures - Fire Fighting


Extinguishing Media: Use dry chemical, foam, carbon dioxide (CO₂), water spray or water fog, do not use water jet.

Hazardous decomposition products: Burning produces carbon oxides, irritating toxic and obnoxious fumes, gases and vapours. Do not allow water run off to enter sewers or drains.

Unusual fire/explosion hazards: No special measures

Special fire-fighting procedures: No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Workplace Exposure Limits (WELs)

Long Term Exposure Level (8hr TWA) – *Not applicable*

Short Term Exposure Level (15 Minutes) – *Not applicable*

Health Surveillance and Monitoring Required

Yes No

Competency Required

Yes No

Exposure Adequately Controlled

Yes No

Risk Rating Following Control Measures

High Medium Low