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9 & 11 Evans Street  
Alrode South  
Alberton  
South Africa

## SAFETY DATA SHEET

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	PINE FLUID		
Product Use:	DETERGENT		
Supplier's Name:	Arrow Chem Chemical Manufacturer	Street Address:	9-11 Evans Street
Suburb:	Alrode South	City:	Alberton
Tel number: +2711 900 3633	Emergency no: 0633739195	Email Address:	<a href="mailto:sales@thearrow.co.za">sales@thearrow.co.za</a>

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients	% Range	CAS Number	Toxicity information
Alkaline salt/ quaternary ammonium compound			

### SECTION 3: HAZARDOUS IDENTIFICATION

Main Hazard:	Will irritate the skin and eyes
Flammability:	Non-Flammable
Chemical Hazard:	Avoid contact with acids bases and oxidants
Biological Hazard:	May cause skin sensitisation
Reproduction Hazard:	No data available
Inhalation:	No Risk
Skin:	Concentrate may cause discomfort, itching and redness
Eyes:	Irritating/watery eyes
Ingestion:	Refer section 16(a)
Carcinogenicity:	No evidence of Carcinogenicity effects.
Mutagenicity:	No evidence of Mutagenicity effects
Neurotoxicity:	No evidence of Neurotoxicity effects



**SECTION 4: FIRST AID MEASURES**

Product Inhaled:	Remove to fresh air
Product on Skin:	Wash with soap and water
Product in Eyes:	Flush with water for 15 minutes. Seek medical attention
Product Ingested:	Induce vomiting, give mil or water to drink, seek medical attention.

**SECTION 5: FIRE FIGHTING IDENTIFIERS**

FLAMMABLE:	YES	NO	If yes under which conditions:
		√	
Method of extinction:	Powder/CO2/foam sand water spray		
Flashpoint (°C) and Method:	Upper Flammable Limit (% by Volume):		Lower Flammable Limit (% by Volume):
N/A	N/A		N/A
Autoignition Temperature (°C):	Explosion Data – Sensitivity to Impact:		Explosion Data – Sensitivity to Static Discharge:
N/A	N/A		N/A
Hazardous Decomposition Products:	May produce floating fire hazard		

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	Full protective suit with breathing apparatus
Precautions:	Do not release into natural waterways
Small Spills:	Flush away with water
Large Spills:	Contain with inert material

**SECTION 7: HANDLING AND STORAGE**

Suitable Material:	Store in Plastic drums
Handling/Storage Precautions:	Store away from oxidising products



**SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

Exposure Limits:	N/A												
Engineering Controls: Adequate ventilation in places of use													
Personal Protective Equipment:													
<table border="1"> <tr> <td>Gloves</td> <td>Respirator</td> <td>Eye</td> <td>Footwear</td> <td>Clothing</td> <td>Other</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Gloves	Respirator	Eye	Footwear	Clothing	Other							
Gloves	Respirator	Eye	Footwear	Clothing	Other								
If Checked, please specify type: Mechanical room ventilation, goggles or face shield, overall plastic body apron Gumboots and PVC gloves.													

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear fluorescent yellow	Odour: Pleasant	Ph: 9.5-11.5
Flush Point: N/A	Melting Point: N/A	Boiling Point: N/A
Flammability: N/A	Solubility co-efficient: N/A	Density: 1KG/L
Solubility – Water: Complete	Solubility – Solvent: Insoluble in most	Explosive Properties: N/A
Vapour Pressure: N/A	Oxidising Properties: None	Neurotoxicity N/A

**SECTION 10: STABILITY AND REACTIVITY**

Chemical Stability: <table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>YES</td> <td><input type="checkbox"/></td> <td>NO</td> </tr> </table>	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	If no, under which conditions: Heat
<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
Incompatibility with Other Substances: <table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>YES</td> <td><input type="checkbox"/></td> <td>NO</td> </tr> </table>	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	If yes, which ones? Strong oxidant strong acids and bases
<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO		
Reactivity and under what conditions: N/A					
Hazardous Decomposition Products: Strong oxidant strong acids and bases					



## SECTION 11: TOXICOLOGICAL INFORMATIONS

Acute Toxicity:			
Ingestion may cause vomiting and nausea			
Skin and eye contact:			
Refer section 3			
Chronic toxicity:			
May result in progressive dermatitis			
Carcinogenicity:	No evidence available	Mutagenicity:	No evidence available

## SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity – Fish:	Dangerous to Aquatic Life in High concentrations
Aquatic Toxicity – Daphnia:	Dangerous to Aquatic Life in High concentrations
Aquatic Toxicity – Algae:	Dangerous to Aquatic Life in High concentrations
Bioaccumulation:	No data available
Biodegradability:	No data available
Mobility:	No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:	Via an authorised disposal company
Disposal of Packaging:	Via an authorised disposal company

## SECTION 14: TRANSPORT INFORMATION

UN No:	Not classified	Class	Not classified. Low hazard
Substance I.D No:	N/A	Danger Group	IV

## SECTION 15: REGULATORY INFORMATION

Risk Phases:	R38	Safety Phases:	S36/S37
National Legislation:	Not Known		

## SECTION 16: OTHER INFORMATION

- (a) Discomfort in mouth and throat, local swelling and burning, nausea, diarrhoea and thirst.

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