

**ACETONE  
 LOCAL SALES SPECIFICATION,  
 PRODUCT INFORMATION AND  
 SAFETY DATA SHEET**

SPECIFICATION			
PROPERTIES	UNITS	LIMITS	TEST METHOD
Acetone Content	Mass %	99,5 min	GC
Water Content	Mass %	0,5 max	ASTM D1364

OTHER PHYSICAL PROPERTIES			
PROPERTIES	UNITS	TYPICAL VALUES	TEST METHOD
Ethanol Content	Mass %	Less than 0,1	GC
n-Propanol Content	Mass %	Less than 0,1	GC
Distillation at 101,3 kPa Initial Boiling Point Dry Point	Deg. Celsius Deg. Celsius	55,5 57,0	ASTM D1078
Density at 20°C	Kg/l	0,789 – 0,793	ASTM D1298
Acidity as CH COOH	Mg/kg	14	ASTM D1613
Residue on evaporation	Mg/kg	Less than 10	ASTM D1353
Permanganate test at 25°C	Minutes	Greater than 120	ASTM D1363
Flash point (Closed cup) at 101,3 kPa	Deg. Celsius	-18	IP 170
Appearance	-	Clear, colourless and free from suspended matter	Visual
Colour	Hazen	0	ASTM D1209

*Supreme*  
PAINT

**B & R PRODUCTS (PTY) LTD**

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**Hazchem number : 2YE**

**UN number : 1090**

**Uses:** A solvent in the following applications, lacquers, lacquer thinners, liquid printing inks, nail polish removers, in the filling of acetylene cylinders, polyester resins, bituminous paints, PVC cloth manufacture, adhesives and explosives. Used as a raw material for the manufacture of methyl iso-butyl ketone, di acetone alcohol, hexylene glycol and fine chemicals. Refining of petroleum products and the manufacture of grease.



<b>Product Name</b>	ACETONE
<b>Commercial Product Name</b>	ACETONE
<b>Synonyms</b>	Dimethyl Ketone, Ketone propane, 2-Propanone

HEALTH HAZARD INFORMATION		
Causes	Symptoms	Emergency and first aid procedures
<b>Inhalation (Breathing)</b>	Vapour is irritating to mucous membranes and acts as an anaesthetic in very high concentration. Prolonged inhalation will also cause headache.	If victim is overcome, remove to fresh air and call a physician, administer artificial respiration if breathing is irregular or has stopped.
<b>Skin Contact / Absorption</b>	Prolonged excessive contact causes defatting of the skin. Not readily absorbed.	Wash well with soap and water.
<b>Eye Contact</b>	Irritation to eyes caused at concentrations greater than 500 ppm.	Flush thoroughly with water for at least 15 minutes. In severe cases, obtain medical attention.
<b>Ingestion (Swallow)</b>	Low order of toxicity, a food additive permitted in food for human consumption.	If victim has swallowed large amounts and is still conscious and not having convulsions, induce vomiting and obtain medical attention promptly.
<b>Acute over-exposure</b>	If present in high concentrations, vapours cause moderate irritation of the eyes or respiratory system. Effect is temporary.	

HAZARDOUS COMPONENTS			REACTIVITY DATA	
<b>Component</b>	<b>%</b>	<b>Hazard Data</b>	<b>Conditions contributing to instability</b>	Can react vigorously with (nitric acetic acid), (nitric and sulphuric acid), (sulphuric acid and potassium dichromate).  Not pertinent  Not pertinent  Not pertinent
Acetone	99	TLV = 750 ppm	<b>Incompatibility</b>	
			<b>Hazardous decomposition products</b>	
			<b>Conditions contributing to hazardous polymerization</b>	
SPECIAL PROTECTION DATA			SPILL OR LEAK PROCEDURES	
<b>Ventilation requirements</b>	Area must be well ventilated.		<b>Steps to be taken if material is released or spilled:</b>	Not pertinent  Mop up with plenty of water and run to waste, diluting greatly with running water. Ventilate area well to evaporate remaining liquid and dispel vapour
<b>Respiratory (in detail)</b>	Organic vapour canister or self-contained breathing apparatus. (SBCA)		<b>Neutralising chemicals</b>	
<b>Eyes</b>	Safety goggles.		<b>Waste disposal method</b>	
<b>Gloves</b>	Rubber gloves.			
FIRE AND EXPLOSION DATA			PHYSICAL DATA	
<b>Flash Point (Test Method)</b>	-18°C (Closed cup)		<b>Boiling Point (at 760mm Hg)</b>	56,5°C
<b>Auto-ignition temperature</b>	465°C		<b>Melting Point (pour pt)</b>	-94,6°C
<b>Flammable limits in air</b>	Lower: 2,6%		<b>Specific gravity (at</b>	0,792 kg/litre

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<b>% by Vol</b>	Upper: 12,8%	<b>20 °C)</b>	
<b>Extinguishing media</b>	Alcohol foam, CO2, dry chemical.	<b>Vapour pressure (at 40 °C)</b>	400mm Hg
<b>Special fire fighting Procedures</b>	Water in straight hose stream will scatter and spread fire and should not be used.	<b>Vapour density (Air = 1)</b>	2,0
<b>Unusual fire and explosion hazards</b>	Dangerous, when exposed to heat or flame. Can react vigorously with oxidizing materials	<b>Solubility in H2O</b>	Completely miscible with water
		<b>Appearance and odour</b>	Clear, colourless liquid, fragrant mintlike odour.

### Manufacturers Note:

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