

BRITANNIA REFINED METALS LTD

Locations and Details of Hazardous On-Site Chemicals



Location	Chemical	Quantity held	Important Fire Fighting Issues
Site wide	Lead monoxide - PbO	Up to 7,000 tonne	Wastes containing lead monoxide at >0.1 – 99% where lead monoxide is the constituent which confers the hazardous properties. PROCEDURE: Wear suitable respiratory protective equipment. Use a dust mask or half-mask with a P3 particle filter. EXTINGUISHING MEDIA: The product itself does not burn. CO2, powder or water spray. Fight larger fire with alcohol resistant foam. For safety and environmental reasons unsuitable extinguishing agents: Water with full jet. ENVIRONMENTAL HAZARD: Very toxic to aquatic life with long lasting effects. If This material enters the River Thames, the Marsh land or ground water it is a Control of Major Accident Hazard (COMAH) / Major Accident to the Environment (MATTE) Event. <u>This must be reported to the HSE.</u>
ISA Refinery	Caustic/Sodium Hydroxide (solid)	1 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Can react with certain metals (Al, Sn, Mg, Cu etc.) to release explosive hydrogen gas EXTINGUISHING MEDIA: Flood with water, using care not to splatter or splash the material
	Nitre/Sodium Nitrate (solid)	1 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Strong oxidising agent. Be aware of likely ignitions. EXTINGUISHING MEDIA: No specific concerns

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Location	Chemical	Quantity held	Important Fire Fighting Issues
	Calcium (metal)	200 kg	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) EXTINGUISHING MEDIA: Use dry graphite, soda ash, powdered sodium chloride or sand. Do not use water or halogenated hydrocarbons.
	Sulphur	1 tonne	PROCEDURE: Use Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Dust or vapours can form an explosive mixture with air. EXTINGUISHING MEDIA: Water fog, steam or carbon dioxide. Extinguish small fires by gently covering with sand or fine earth.
	Sodium (metal)	25 kg	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Reactions with water form sodium hydroxide and hydrogen gas which may explode. Burns violently accompanied by explosions. EXTINGUISHING MEDIA: Use dry soda ash, dry salt or sand. Do not use water, carbon dioxide or chlorinated fire extinguishers.

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	Arsenic (metal)	1 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA). Restrict persons not wearing protective equipment from the area. Try to snuff fire with sand, dry media, foam or CO₂. Poisonous gases are produced in fire including arsenic oxide. UNUSUAL HAZARDS: Arsenic, when heated or in contact with acids or acid fumes, can produce highly toxic fumes. Arsenic reacts vigorously with oxidising materials. Arsenic is flammable in the form of dust when exposed to heat or flame or by chemical reaction with powerful oxidisers. EXTINGUISHING MEDIA: Foam, CO₂, dry chemical
BRM Refinery	No chemicals used		
Dust Plant	Calcium lignosulphonate in liquid form	10 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: The product may in certain concentrations and at temperatures above 450 dg.C cause dust explosion. EXTINGUISHING MEDIA: Water, dry powder, foam and carbon dioxide (CO₂) Do not use water jet.

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	Sugar Cane Molasses	10 tonne	Not combustible when spilled or transported ENVIRONMENT: Biodegradable, increases BOD and COD. Contain spills with sand and shovel into salvage container for disposal. Prevent direct discharge into watercourses or lakes due to high BOD. If this does occur, inform Local Authorities at once.
Recycling Kettle Floor (formerly Secondary Kettle Floor)	Caustic/Sodium Hydroxide (solid)	1 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Can react with certain metals (Al, Sn, Mg, Cu etc.) to release explosive hydrogen gas EXTINGUISHING MEDIA: Flood with water, using care not to splatter or splash the material
	Nitre/Sodium Nitrate (solid)	1 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Strong oxidising agent. Be aware of likely ignitions. EXTINGUISHING MEDIA: No specific concerns
	Sulphur	1 tonne	PROCEDURE: Use Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Dust or vapours can form an explosive mixture with air. EXTINGUISHING MEDIA: Water fog, steam or carbon dioxide. Extinguish small fires by gently covering with sand or fine earth.
Water Treatment plant formaly	Caustic/Sodium Hydroxide (solid)	1 tonne	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Can react with certain metals (Al,

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Battery Plant			Sn, Mg, Cu etc.) to release explosive hydrogen gas EXTINGUISHING MEDIA: Flood with water, using care not to splatter or splash the material
	Sulphuric Acid	1 m ³	PROCEDURE: Use Full Protective Equipment and Positive Pressure Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Releases poisonous gases. Work upwind if possible. Powerful oxidiser. EXTINGUISHING MEDIA: Water from a distance, CO ₂ , dry chemical.
Silver Plant	Borax/Di Sodium Tetraborate	1 tonne	UNUSUAL HAZARDS: Product is fire retardant EXTINGUISHING MEDIA: None required
	Calgon/Sodium Hexametaphosphate	1 tonne	PROCEDURE: Chemical fire; use respiratory protection UNUSUAL HAZARDS: None
Stores	Hydrochloric Acid 32%	180lt	PROCEDURE: Use Full Protective Equipment and Positive Pressure Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Extreme heat or contact with metals can release flammable hydrogen gas. EXTINGUISHING MEDIA: Water. Neutralise with soda ash or slaked lime

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	Sodium Hypochlorite		PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Fire may cause evolution of: Chlorine Hydrogen chloride gas chlorine oxides. EXTINGUISHING MEDIA: The product itself does not burn. Use Carbon dioxide, dry chemical powder. Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. ENVIRONMENT: This must not be discharged into drains.
	Borax/Di Sodium Tetraborate		UNUSUAL HAZARDS: Product is fire retardant EXTINGUISHING MEDIA: None required
	Calgon/Sodium Hexametaphosphate		PROCEDURE: Chemical fire; use respiratory protection UNUSUAL HAZARDS: None
	Caustic/Sodium Hydroxide (solid)		PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Can react with certain metals (Al, Sn, Mg, Cu etc.) to release explosive hydrogen gas EXTINGUISHING MEDIA: Flood with water, using care not to splatter or splash the material
	Caustic/Sodium Hydroxide (liquid – 30%)		PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Emits toxic fumes under fire conditions EXTINGUISHING MEDIA: Dry chemical powder

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	Nitre/Sodium Nitrate (solid)		PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Strong oxidising agent. Be aware of likely ignitions. EXTINGUISHING MEDIA: No specific concerns
	Sulphur		PROCEDURE: Use Self Contained Breathing Apparatus (SCBA). UNUSUAL HAZARDS: Dust or vapours can form an explosive mixture with air. EXTINGUISHING MEDIA: Water fog, steam or carbon dioxide. Extinguish small fires by gently covering with sand or fine earth.
	Borax/Di Sodium Tetraborate	25 kg	UNUSUAL HAZARDS: Product is fire retardant EXTINGUISHING MEDIA: None required
	Litharge/Lead Monoxide	25 kg	PROCEDURE: Use Full Protective Equipment and Self Contained Breathing Apparatus (SCBA) UNUSUAL HAZARDS: Toxic gases produced EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire
Laboratory	1-(2-PYRIDYLAZO)-2-NAPHTHOL (MERCK)	<1kg	PROCEDURE: Dust respirator when dusts are generated & general PPE UNUSUAL HAZARDS Combustible. May evolve toxic fumes in fire. (oxides of nitrogen) EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide

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Location	Chemical	Quantity held	Important Fire Fighting Issues
	ACETIC ACID (GLACIAL) 100% GR ACS, ISO	1- 5kg	PROCEDURE: Self-contained breathing apparatus required when vapours/aerosols are generated. Gloves: Butyl rubber, Viton™ or PE/EVAL (Silver Shield) & general PPE. UNUSUAL HAZARDS: Flammable. Vapours heavier than air. Vapour/air mixture explosive. EXTINGUISHING MEDIA: Water spray, dry powder or vaporising liquids
	ACETONE ANALAR	1- 5kg	PROCEDURE: Self-contained breathing apparatus required when vapours/aerosols are generated. Gloves: Butyl rubber, Viton™ or PE/EVAL (Silver Shield) & general PPE. UNUSUAL HAZARDS: Highly flammable, Readily forms explosive mixtures with air. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide Cool container with water spray from a safe distance.
	ALUMINIUM WIRE ANALAR	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: None EXTINGUISHING MEDIA: None specified
	ALUMINIUM THIN SHEET	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: None EXTINGUISHING MEDIA: None specified
	AMMONIA SOLUTION ANALAR SP.GR. ABOUT 0.91	1- 5kg	PROCEDURE: Self-contained breathing apparatus when vapours are generated & general PPE. UNUSUAL HAZARDS: Combustible vapours May evolve toxic fumes in fire. (ammonia, oxides of nitrogen) EXTINGUISHING MEDIA: Water spray

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	AMMONIUM ACETATE GR ACS	<1kg	PROCEDURE: General PPE & do not stay in dangerous zone without respiratory protective equipment. HAZARDS: Not readily combustible. May evolve toxic fumes in fire. (nitrogen oxides) EXTINGUISHING MEDIA: None specified
	AMMONIUM THIOCYANATE (MERCK)	<1kg	PROCEDURE: Dust respirator when dusts are generated & general PPE. HAZARDS: Not combustible. May evolve toxic fumes in fire. (nitrogen oxides, sulphur oxides) EXTINGUISHING MEDIA: None specified
	ANTI-BUMPING GRANULES (FUSED ALUMINA) - MERCK	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: None EXTINGUISHING MEDIA: None specified
	ANTIMONY	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: May evolve toxic fumes in fire. EXTINGUISHING MEDIA: None specified
	ASCORBIC ACID (VITAMIN C)	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Combustible. EXTINGUISHING MEDIA: None specified
	BDH INDICATOR	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: None EXTINGUISHING MEDIA: None specified
	BROMINE ANALAR	<1kg	PROCEDURE: Wear chemical protection suit and respiratory protective equipment immediately. UNUSUAL HAZARDS: Not combustible. May evolve toxic fumes in fire. Vapours heavier than air. EXTINGUISHING MEDIA: Cool containers with water spray.

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	CITRIC ACID ANALAR	<1kg	PROCEDURE: General PPE HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	COPPER (APS CHEMICALS)	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Non combustible. EXTINGUISHING MEDIA: None specified
	COPPER FOIL, GAUZE, TURNINGS, WIRE, POWDER AND WOOL	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Non combustible. EXTINGUISHING MEDIA: None specified
	ETHYLENEDIAMINETETRA-ACETIC ACID DISODIUM SALT ANALAR	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Non combustible. EXTINGUISHING MEDIA: None specified
	FLUORESCEIN SODIUM TECHNICAL DYE	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	HYDROCHLORIC ACID 32% (APS CHEMICALS)	1- 5kg	PROCEDURE: Self-contained breathing apparatus when vapours are generated and general PPE. UNUSUAL HAZARDS: Not combustible. May evolve toxic fumes in fire. (Hydrogen chloride) EXTINGUISHING MEDIA: None specified
	HYDROFLUORIC ACID 38-40%	<1kg	PROCEDURE: Self-contained breathing apparatus, Gloves: Butyl rubber, Goggles or face-shield, Plastic apron, sleeves, boots HAZARDS: Not combustible. May evolve toxic fumes in fire. (toxic fluorine compounds) EXTINGUISHING MEDIA: None specified

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	HYDROGEN PEROXIDE SOLUTION ABOUT 30% W/V ANALAR	<1kg	PROCEDURE: Respirator: required when vapours/aerosols are generated. Gloves: Butyl rubber, Nitrile or Viton™ HAZARDS: Not combustible. Has a fire-promoting effect due to release of oxygen. May ignite combustible material. EXTINGUISHING MEDIA: Cool containers with water spray.
	ICP COPPER SINGLE ELEMENT STANDARD 1000 PPM	<1kg	PROCEDURE: Respirator: Self-contained breathing apparatus when vapours/aerosols are generated and general PPE. HAZARDS: Not combustible. May evolve toxic fumes in fire. (Nitrogen oxides). EXTINGUISHING MEDIA: None specified
	IODINE	<1kg	PROCEDURE: Wear chemical protection suit and respiratory protective equipment immediately. HAZARDS: Not combustible. May evolve toxic fumes in fire. EXTINGUISHING MEDIA: None specified
	LEAD (II) ACETATE 3-HYDRATE ANALAR	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: May evolve toxic fumes in fire. EXTINGUISHING MEDIA: Water spray, foam or dry powder
	MARBLE CHIPS	1- 5kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Non combustible. EXTINGUISHING MEDIA: None specified
	METHYLATED SPIRITS 100%	1- 5kg	PROCEDURE: General PPE and Self-contained breathing apparatus when vapours are generated. UNUSUAL HAZARDS: Highly flammable. Vapour/air mixture explosive. EXTINGUISHING MEDIA: Water spray, dry powder or vaporising liquids

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	METHYLENE BLUE TECHNICAL DYE	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Combustible. May evolve toxic fumes in fire. EXTINGUISHING MEDIA: Water spray
	NICKEL (BASKETS, CAPSULES, FLUX, NIBBLED, PINS, WIRE)	<1kg	PROCEDURE: General PPE UNUSUAL HAZARDS: Non combustible. EXTINGUISHING MEDIA: None specified
	NITRIC ACID SP.GR. 1.42 ANALAR	1- 5kg	PROCEDURE: Gloves: Viton™ & general PPE UNUSUAL HAZARDS: Not combustible. May ignite combustible material. May evolve toxic fumes in fire. (oxides of nitrogen) EXTINGUISHING MEDIA: Water spray
	PHENOLPHTHALEIN INDICATOR (MERCK)	<1kg	PROCEDURE: General PPE HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	POTASSIUM IODIDE SUPRAPUR	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Not combustible. May evolve toxic fumes in fire. EXTINGUISHING MEDIA: None specified
	PROPANOL	<1kg	PROCEDURE: Self-contained breathing apparatus or filter A (acc. to DIN 3181) for vapours of organic compounds when vapours are generated and general PPE - Gloves: Butyl rubber, Viton™ or PE/EVAL (Silver Shield). HAZARDS: Highly flammable. Vapour/air mixture explosive. EXTINGUISHING MEDIA: Water spray, dry powder or vaporising liquids
	SODIUM ACETATE 3-HYDRATE GPR	<1kg	PROCEDURE: Dust respirator when dusts are generated. HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide

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	SODIUM BENZOATE (APS CHEMICALS)	<1kg	PROCEDURE: Dust respirator when dusts are generated. HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	SODIUM HYDROXIDE - SOLID	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Not combustible. EXTINGUISHING MEDIA: None specified
	SODIUM SULFIDE (MERCK)	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Not combustible. May evolve toxic fumes in fire. (sulphur oxides) EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	SODIUM TETRABORATE DECAHYDRATE	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS Not combustible. May evolve toxic fumes in fire. EXTINGUISHING MEDIA: None specified
	STARCH SOLUBLE EXTRA PURE	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Combustible. Danger of dust explosion. EXTINGUISHING MEDIA: None specified
	TARTARIC ACID ANALAR	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	TELLURIUM LUMP, VERY PURE 99.999% LUMPS	<1kg	PROCEDURE: General PPE. HAZARDS: Combustible. EXTINGUISHING MEDIA: Water spray

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	THORIUM NITRATE	<1kg	PROCEDURE: Self-contained breathing apparatus Chemical worker's protective suit, and all other general PPE HAZARDS: Fire-promoting. Keep away from combustible materials. The following may develop in event of fire: oxides of nitrogen, radioactive dust. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide
	TIN GRANULATED ANALAR	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Not readily combustible. EXTINGUISHING MEDIA: None specified
	TITANIUM (III) CHLORIDE SOLUTION TECHNICAL 30%W/V (TITANIUM TRICHLORIDE)	<1kg	PROCEDURE: Self-contained breathing apparatus when vapours are generated and general PPE. HAZARDS: Not combustible. May evolve toxic fumes in fire. (Toxic chlorine compounds). EXTINGUISHING MEDIA: None specified
	URANYL ACETATE	<1kg	PROCEDURE: Self-contained breathing apparatus and general PPE. HAZARDS: Not readily combustible. The following may develop in event of fire: radioactive dust. EXTINGUISHING MEDIA: Water spray, foam, dry powder or carbon dioxide.
	ZINC, POWDER	<1kg	PROCEDURE: Dust respirator when dusts are generated and general PPE. HAZARDS: Flammable on contact with water. Dust/air mixture explosive. EXTINGUISHING MEDIA: USE ONLY dry powder or sand

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