

**LEISURE INDUSTRY
CLEANER & DE-SCALER**

THUNDER BOLT

CODE: J61

- REMOVES SEVERE WATER SCALE AND BODY FATS •
- IDEAL AND SAFE FOR USE ON POOLSIDE SURFACES •

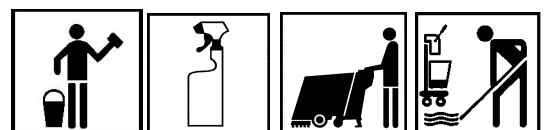
Concentrated blend of Phosphoric acid and powerful de-greasers in a viscosity controlled formulation which can be diluted for a wide range of deep cleaning and de-scaling applications

Recommended For:			
Pool sides water scale	✓	Ceramic walls and floor tiles	✓
Rust removal from Stainless steel	✓	Tiles and grouting, plastics	✓
Wet areas, Spa baths, Concrete floors	✓	Uric acid deposits from Toilet and Urinal surfaces	✓

DIRECTIONS FOR USE	DILUTE WITH	DILUTION RATIO
Severe scale / body fats Controlled application / vertical surfaces	N/A	Neat
Severe scale / body fats	Hot water	Up to 10:1
Medium soilage	Hot/ Cold water	Up to 40:1
General Cleaning, Hard Surfaces	Hot / Cold water	Up to 80:1

Apply by mop, cloth, brush, spray or machine.
Rinse thoroughly, minimising any contamination into the pool.

N.B. Always test a small area of the surface with your cleaning solution to check surface compatibility.



• Leisure Industry Hygiene •

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SAFETY DATA SHEET Issued: 16/10/2003

Revision 1: 01/11/2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**Product name:** J61 THUNDERBOLT**Use / description of product:** A viscous odourless acidic descaler with a powerful action for deep cleaning pool areas. Safe on stainless steel.**Company name:** PARAGON PRODUCTS (UK) LTD.
NEWHAILES INDUSTRIAL ESTATE, NEWHAILES ROAD,
MUSSELBURGH, EAST LOTHIAN, EH21 6SY.
TEL: 0131 653 2222 FAX: 0131 653**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Substance Name:	EINECS:	CAS:	RISK PHRASES:
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(C9 - C18)PARETH(2 -

ORTHOPHOSPHORIC	231-633-	7664-38-	[C] R34
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COCODIMETHYLAMINE NEOXIDE 30% 1-10%			Xi] R36/38; [N] R50
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3. HAZARDS IDENTIFICATION**Main hazards:** Irritating to eyes and skin.**4. FIRST AID MEASURES (SYMPTOMS)****Skin contact:** There may be irritation and redness at the site of contact.**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.**4. FIRST AID MEASURES (ACTION)****Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.**5. FIRE-FIGHTING MEASURES****Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.**Exposure hazards:** In combustion emits toxic fumes.**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closeable, labelled salvage container for disposal by an appropriate method.**7. HANDLING AND STORAGE****Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Hazardous ingredients:** ORTHOPHOSPHORIC ACID...100%
TWA 1 mg/m³ STEL 2 mg/m³**Engineering measures:** Ensure there is sufficient ventilation of the area.**Respiratory protection:** Self-contained breathing apparatus must be

available in case of emergency.

Hand protection: Protective gloves.**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.**Skin protection:** Protective clothing.**9. PHYSICAL AND CHEMICAL PROPERTIES****State:** Liquid**Colour:** Colourless**Odour:** Barely perceptible odour**Evaporation rate:** Moderate**Solubility in water:** Soluble**Viscosity:** Viscous**Relative density:** 1.15 - 1.25**pH:** 1% = 2 - 2.5**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Heat.**Materials to avoid:** Strong oxidising agents. Strong acids.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** ORTHOPHOSPHORIC ACID...100%
ORL RAT LD50 1530 mg/kg**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Mobility:** Readily absorbed into soil.**Persistence and degradability:** Biodegradable.**Bioaccumulative potential:** No bioaccumulation potential.**Other adverse effects:** Negligible ecotoxicity.**13. DISPOSAL CONSIDERATIONS****NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 3264 **ADR Class:** 8**Packing group:** III **Classification code:** C1**Shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ORTHOPHOSPHORIC ACID...20%)**Labelling:** 8 **Hazard ID no:** 80**IMDG / IMO****UN no:** 3264 **Class:** 8**Packing group:** III **EmS:** F-A,S-B**Marine pollutant:** . **Labelling:** 8**IATA / ICAO****UN no:** 3264 **Class:** 8**Packing group:** III **Packing instructions:** 818(P&CA); 820(CAO)**Labelling:** 8**15. REGULATORY INFORMATION****Hazard symbols:** Irritant.**IRRITANT****Risk phrases:** R36/38: Irritating to eyes and skin.**Safety phrases:** S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. OTHER INFORMATION****Other information:** 12 X 1 LTR ; NOT SUBJECT TO ADR**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.