

# MATERIAL SAFETY DATA SHEET — 16 Sections

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Identifier</b> BLITz Clean up - Neutraliser (MST128 & MST 129)			
<b>Product Use</b> To neutralise residue polishing solution from any of B-50, B-30 or EX-50			
<b>Manufacturer's Name</b> Metal Science Technologies Pty Ltd		<b>Supplier's Name</b> Metal Science Technologies Pty Ltd	
<b>Street Address</b> 43 Shelley Road		<b>Street Address</b> 43 Shelley Road	
<b>City</b> Moruya	<b>Province</b> NSW	<b>City</b> Moruya	<b>Province</b> NSW
<b>Postal Code</b> 2537	<b>Emergency Telephone</b> 0411 217 986	<b>Postal Code</b> 2537	<b>Emergency Telephone</b> 0411 217 986
<b>Date MSDS Prepared</b> 9.7.13	<b>MSDS Prepared By</b> Metal Science Technologies Pty Ltd		<b>Phone Number</b> 02 4474 3394

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients (<i>specific</i>)</b>	<b>%</b>	<b>CAS Number</b>	<b>LD<sub>50</sub> of Ingredient (<i>specify species and route</i>)</b>
2,2',2"-NITRILOTRIETHANOL	15%- 20%	102-71-6	7200mg/Kg Rat
2,2'-IMINODIETHANOL	<1%	111-42-2	710 mg kg Rat
Proprietary	<1%	Not Available	N/A
Deionised water	70%-80%	7732-18-5	N/A

## SECTION 3 — HAZARDS IDENTIFICATION

<b>Route of Entry</b> Skin Contact /Absorption, Eye Contact, Inhalation & Ingestion
<b>Emergency Overview</b> Blue liquid. Odorless. Will not burn. Can form hazardous decomposition products. Contact with metals liberates flammable hydrogen gas.
<b>Potential Health Effects</b> <b>Eye:</b> May cause damage to eyes. Contact with liquid is irritating to the eyes. <b>Skin:</b> Prolonged contact may cause skin irritation with local redness.
<b>Ingestion:</b> Danger of serious damage to health by prolonged exposure if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. However, swallowing larger amounts may cause injury. <b>Inhalation:</b> At room temperature, exposure to vapour is minimal due to low volatility. Vapour from heated material may cause respiratory irritation and other effects.
<b>Chronic:</b> Prolonged or repeated skin contact may cause dermatitis.

## SECTION 4 — FIRST AID MEASURES

<b>Skin Contact</b> Remove contaminated clothing. Flush affected area with plenty of water. If irritation persists, seek medical attention.
<b>Eye Contact</b> Immediately flush eyes with plenty of water holding eyelids open. Consult an eye specialist.
<b>Inhalation</b> Remove from exposure to fresh air. If not breathing apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
<b>Ingestion</b> Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek medical attention.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>Flammable</b> No		
<b>Means of Extinction</b> In case of fire in the surroundings, use appropriate extinguishing media.		
<b>Flashpoint (°C) and Method</b> Not applicable	<b>Upper Flammable Limit (% by volume)</b> Not Available	<b>Lower Flammable Limit (% by volume)</b> Not Available
<b>Autoignition Temperature (°C)</b> Not Applicable	<b>Explosion Data — Sensitivity to Impact</b> Not Applicable	<b>Explosion Data — Sensitivity to Static Discharge</b> Not Applicable
<b>Hazardous Combustion Products</b> Non-combustible liquid. Will not burn, or support combustion. Avoid contact with heat, sunlight, moisture, oxidizing agents, nitrites, acids, acid chlorides, halogenated hydrocarbons and ignition sources. Exposure to high temperatures may cause decomposition. Hygroscopic. May discolour after lengthy storage. When involved in a fire, this product may generate toxic gases and vapours.		
<b>NFPA</b> (estimated) Health: 1; Flammability: 0; Instability: 0		

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

<p>Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Stop leak if safe to do so. Increase ventilation. Avoid walking through spilled product as it may be slippery. Do NOT let product reach drains or waterways. If the product does enter a waterway advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment. Methods and Materials for Containment and Clean Up</p> <p>Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material and transfer to a suitable, labelled, dry, sealable chemical-waste container and dispose of promptly.</p>
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## SECTION 7 — HANDLING AND STORAGE

<b>Handling Procedures and Equipment</b> Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated shoes.
<b>Conditions for Safe Storage (Including Any Incompatibles)</b> Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidizing agents, nitrites, acids, acid chlorides, halogenated hydrocarbons and ignition sources. Protect from direct sunlight, moisture and electrostatic charges. Store at <23C in temperature.

## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

<p><b>Exposure Limits - ACGIH TLV</b> ACGIH® TLV® TWA = 5mg/m<sup>3</sup></p>
<p><b>Specific Engineering Controls (such as ventilation, enclosed process)</b> Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.</p>
<p><b>Personal Protective Equipment</b> Skin (Gloves, Footwear &amp; Clothing), Respirator &amp; Eye</p>
<p><b>Skin</b> Wear chemical protective clothing e.g. gloves, aprons, boots. <u>Suitable materials</u> include: butyl rubber, natural rubber, neoprene rubber, nitrile rubber, polyethylene, polyvinyl chloride, Viton®, Viton®/butyl rubber, Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE), Trellechem® HPS, Trellechem® VPS, Tychem® SL (Saranex™), Tychem® BR/LV, Tychem® Responder, Tychem® TK.</p>
<p><b>Respirator</b> Up to 25 mg/m<sup>3</sup>: supplied air respirator. Operated in continuous flow mode. Up to 50 mg/m<sup>3</sup>: wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s), wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator. Up to 1000 mg/m<sup>3</sup>: wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator. ESCAPE: wear a full facepiece NIOSH approved air-purifying respirator with an appropriate cartridge.</p>
<p><b>Eye</b> Wear chemical safety goggles. A face shield may also be necessary.</p>

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<p><b>Physical State</b> Blue liquid</p>	<p><b>Odour and Appearance</b> Odorless, APHA: 10 max - colorless viscous</p>	<p><b>Viscosity</b> 3.86 mPa.s</p>
<p><b>Specific Gravity</b> 1.125 g/cm<sup>3</sup></p>	<p><b>Vapour Density (air = 1)</b> 5.14 (air=1)</p>	<p><b>Vapour Pressure (mmHg)</b> 3.59E-006 mm Hg @ 25 deg C</p>
<p><b>Evaporation</b> Not available</p>	<p><b>Boiling Point (□C)</b> 158 deg C @ 760 mm Hg</p>	<p><b>Freezing Point (□C)</b> 21 deg C</p>
<p><b>pH</b> 10.5 (15 g/l H<sub>2</sub>O)</p>	<p><b>Coefficient of Water/Oil Distribution</b> Not Available</p>	<p><b>Solubility in Water</b> Miscible</p>

## SECTION 10 — STABILITY AND REACTIVITY

<p><b>Chemical Stability</b> Stable under normal temperatures and pressures.</p>
<p><b>Incompatibility with Other Substances</b> Strong oxidizing agents, strong acids, aluminum, copper, copper alloys, zinc.</p>
<p><b>Reactivity, and under what conditions?</b> Excess heat, exposure to moist air or water.</p>
<p><b>Hazardous Decomposition Products</b> Nitrogen oxides, carbon monoxide, carbon dioxide.</p>

## SECTION 11 — TOXICOLOGICAL INFORMATION

<b>Effects of Acute Exposure</b>	
<b>Eye contact</b> Mild irritant. May cause permanent damage with prolonged use without using correct protective equipment.	
<b>Skin contact</b> Mild Irritant. May cause permanent damage with prolonged use without using correct protective equipment.	
<b>Skin absorption</b> Not absorbed through the skin.	
<b>Inhalation</b> Minimal effects especially at room temperature. Heated vapour may be irritating.	
<b>Effects of Chronic Exposure</b> See effects of acute exposure	
<b>Irritancy of Product</b> Mild, but can be severe with prolonged use without using correct protective equipment.	
<b>Skin Sensitization</b> Not considered a sensitizer	<b>Respiratory Sensitization</b> Not considered a sensitizer
<b>Carcinogenicity — IARC</b> CAS# 102-71-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 111-42-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.	<b>Carcinogenicity — ACGIH</b> CAS# 102-71-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 111-42-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
<b>Reproductive Toxicity</b> No information available.	<b>Teratogenicity</b> No information available.
<b>Embryotoxicity</b> No information available.	<b>Mutagenicity</b> No information available.
<b>Name of Synergistic Products/Effects</b> No information available.	

## SECTION 12 — ECOLOGICAL INFORMATION

<b>Ecotoxicity</b> Fish: Fathead Minnow: 5600 mg/L; 96H; LC50
<b>Other</b> Do not empty into drains.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. <b>RCRA P-Series:</b> None listed. <b>RCRA U-Series:</b> None listed.
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## SECTION 14 — TRANSPORT INFORMATION

<b>Shipping Name</b> Triethanolamine
<b>Hazard Class</b> N/A
<b>UN Number</b> N/A
<b>Packing Group</b> N/A

## SECTION 15 — REGULATORY INFORMATION

<b>[WHMIS Classification]</b> This product has a WHMIS classification of D2B.	<b>[OSHA]</b> None of the chemicals in this product are considered highly hazardous by OSHA.
<b>[SERA]</b> None of the chemicals in this product have a TPQ.	<b>[TSCA]</b> None of the chemicals in this material have a SNUR under TSCA.
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.</i>	

## SECTION 16 — OTHER INFORMATION

<b>MSDS Creation Date:</b> 3/04/2013
<i>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.</i>
<b>End of MSDS</b>

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