MATERIAL SAFETY DATA SHEET

Trisodium Phosphate

Section 01 - Chemical And Product And Company Information

Product Identifier ....................... Trisodium phosphate

Product Use .............................. Industrial chemical, textiles, water treatment

Supplier Name ............................. ClearTech Industries Inc.
2302 Hanselman Avenue
Saskatoon, SK. Canada
S7L 5Z3

Prepared By ............................... ClearTech Industries Inc. Technical Department
Phone: (306)664-2522

Preparation Date ......................... February 3, 2011

24-Hour Emergency Phone .......... 306-664-2522

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients ............... Trisodium phosphate dodecahydrate 60-100%

CAS Number ............................. Trisodium phosphate dodecahydrate 10101-89-0

Synonym (s) .............................. Sodium orthophosphate dodecahydrate

Section 03 - Hazard Identification

Inhalation ................................. Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains and difficulty breathing.
Skin Contact / Absorption………. May cause moderate skin burns. May cause severe irritation, especially if skin is moist or wet.

Eye Contact……………………… May cause eye burns. May cause permanent corneal injury. May cause severe eye irritation.

Ingestion………………………… May cause burns of the mouth, throat and stomach. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

Exposure Limits………………….. Not available

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**Section 04 - First Aid Measures**

Inhalation……………………… Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if difficulties persist.

Skin Contact / Absorption……… Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact……………………… Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention if symptoms persist.

Ingestion………………………… Do not induce vomiting. Do not give anything by mouth to an unconscious person. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.
Additional Information
Treat symptomatically. Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and caution portion of the molecule. The following treatments should be considered for the specific group(s) of phosphate salts found in this product:

- All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored.

- Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored.

- Potassium salts have a hypothetical risk of hyperkalemia which can cause cardiac arrhythmia. In addition to calcium levels, potassium and phosphate levels should be monitored. Also consider continuous EKG monitoring to detect hyperkalemia.

- Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.

Section 05 - Fire Fighting

Conditions of Flammability
Product does not burn

Means of Extinction
Does not burn, use appropriate extinguishing media for surrounding fire.

Flash Point
Not applicable

Auto-ignition Temperature
Not applicable

Upper Flammable Limit
Not applicable

Lower Flammable Limit
Not applicable

Hazardous Combustible Products
Under fire conditions, oxides of sodium and phosphorus.

Special Fire Fighting Procedures
Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Explosion Hazards
Not available
Section 06 - Accidental Release Measures

Leak / Spill............................................................. Wear appropriate personal protective equipment. Scoop up or vacuum spilled material and place in appropriate closed container. Flush area with water to remove any trace residue. Prevent material from entering sewers.

Deactivating Materials...................... Not available

Section 07 - Handling and Storage

Handling Procedures.............................. Avoid contact with eyes, skin and clothing. Avoid breathing in dust. Use with adequate ventilation. Wash thoroughly after handling. Potentially deadly carbon monoxide gas can form in enclosed area or tanks when alkaline products contain materials that contain sugars. Do not enter such areas until they have been well ventilated and carbon monoxide and oxygen levels have been determined safe. Continue to monitor atmosphere while personnel are in enclosure. Empty containers may contain hazardous product residues.

Storage Requirements......................... Store in a cool, dry, well-ventilated area. Keep containers tightly closed.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes................................................................. Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory..................................................... NIOSH-approved respirator for dust should be worn, if needed.

Gloves............................................................. Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Clothing......................................................... Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Footwear....................................................... No special footwear is required other than what is mandated at place of work.

Engineering Controls
**Ventilation Requirements**

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

**Other**

Emergency shower and eyewash should be in close proximity.

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### Section 09 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
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<tr>
<td>Odor and Appearance</td>
<td>Odorless, white granular powder</td>
</tr>
<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Specific Gravity (Water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg, 20C)</td>
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<tr>
<td>Vapor Density (Air=1)</td>
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<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
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<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freeze/Melting Point</td>
<td>75°C</td>
</tr>
<tr>
<td>pH</td>
<td>11.8 (1% Solution @ 25°C)</td>
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<tr>
<td>Water/Oil Distribution Coefficient</td>
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<tr>
<td>Bulk Density</td>
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</tr>
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<td>% Volatiles by Volume</td>
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<tr>
<td>Solubility in Water</td>
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<td>Molecular Formula</td>
<td>Na$_3$PO$_4$ 12H$_2$O</td>
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<tr>
<td>Molecular Weight</td>
<td>380.13</td>
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### Section 10 - Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Incompatibility</td>
<td>Strong acids, magnesium metal</td>
</tr>
</tbody>
</table>
Hazardous Products of Decomposition: Oxides of phosphorus and sodium

Polymerization: Will not occur

Section 11 - Toxicological Information

Irritancy: Irritating to skin & respiratory area, extremely irritating to eyes.

Sensitization: Not available

Chronic/Acute Effects: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Synergistic Materials: Not available

Animal Toxicity Data: LD_{50}(Oral, Rat): 7400mg/kg

Carcinogenicity: Not listed with IARC, NTP, ACGIH, or OSHA as a carcinogen.

Reproductive Toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Section 12 - Ecological Information

Fish Toxicity: EC_{50}(96hr, Mosquitofish): 151mg/L

Biodegradability: The resulting phosphate may persist indefinitely or incorporate into biological systems.

Environmental Effects: Not available

Section 13 - Disposal Consideration

Waste Disposal: Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Section 14 - Transportation Information

TDG Classification

Class ................................................. 9
Group .................................................. III

PIN Number ....................................... UN3077

Other ................................................ Secure containers (full and/or empty) with suitable hold down devises during shipment.

Section 15 - Regulatory Information

WHMIS Classification ......................... E

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 - Other Information

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / MSDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CADC) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Material Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service or technical service department.
**ClearTech Industries Inc. - Locations**

Corporate Head Office: 2302 Hanselman Avenue, Saskatoon, SK, S7L 5Z3  
Phone: 306-664-2522  
Fax: 306-665-6216  
www.ClearTech.ca

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Postal Code</th>
<th>Phone Number</th>
<th>Fax Number</th>
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<tr>
<td>Richmond, B.C.</td>
<td>12431 Horseshoe Way</td>
<td>V7A 4X6</td>
<td>604-272-4000</td>
<td>604-272-4596</td>
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<tr>
<td>Calgary, AB.</td>
<td>5516E - 40th St. S.E.</td>
<td>T2C 2A1</td>
<td>403-279-1096</td>
<td>403-236-0989</td>
</tr>
<tr>
<td>Edmonton, AB.</td>
<td>11750 - 180th Street</td>
<td>T5S 1N7</td>
<td>780-452-6000</td>
<td>780-452-4600</td>
</tr>
<tr>
<td>Saskatoon, SK.</td>
<td>2302 Hanselman Avenue</td>
<td>S7L 5Z3</td>
<td>306-933-0177</td>
<td>306-933-3282</td>
</tr>
<tr>
<td>Regina, SK.</td>
<td>555 Henderson Drive</td>
<td>S42 5X2</td>
<td>306-721-7737</td>
<td>306-721-8611</td>
</tr>
<tr>
<td>Winnipeg, MB.</td>
<td>340 Saulteaux Crescent</td>
<td>R3J 3T2</td>
<td>204-987-9777</td>
<td>204-987-9770</td>
</tr>
<tr>
<td>Mississauga, ON.</td>
<td>7480 Bath Road</td>
<td>L4T 1L2</td>
<td>905-612-0566</td>
<td>905-612-0575</td>
</tr>
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</table>

24 Hour Emergency Number - All Locations - 306-664-2522
MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS
DATE OF PREPARATION - 01-03-2009
Prepared by: Compliance Dept.

SECTION I - PRODUCT IDENTIFICATION
MANUFACTURER: Munro Products
DISTRIBUTOR: 9150 Clarence Center Road
               Clarence Center, NY  14032
INFORMATION: 716/741-9450
EMERGENCY: CHEMTREC® 1-800-424-9300
PRODUCT CLASS: ACRYLIC RESIN (TRADE SECRET)
TRADE NAME: BathWorks DIY Refinishing Kit (Part A Base Color)
CODE: F LINE - LEAD FREE 2000/BASE COLOR (PART A)

SECTION II - HAZARDOUS INGREDIENTS

COMMON NAME

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>TRANSITIONAL LIMIT</th>
<th>CHEMICAL NAME</th>
<th>FINAL RULE LIMITS</th>
<th>CAS #</th>
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<tr>
<td></td>
<td>WEIGHT %</td>
<td>ACGIH TLV/TWA (PPM)</td>
<td>ACGIH TLV/STEL (PPM)</td>
<td>OSHA PEL/TWA (PPM)</td>
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<tr>
<td>XYLENE</td>
<td>0-1</td>
<td>100</td>
<td>150</td>
<td>150</td>
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<tr>
<td>METHYL N-AMYL KETONE</td>
<td>15-19</td>
<td>50</td>
<td>NE</td>
<td>100</td>
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<tr>
<td>ETHYLENE GLYCOL MONOETHYL ETHER</td>
<td>13-24</td>
<td>5</td>
<td>NE</td>
<td>100</td>
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<tr>
<td>ETHYLENE GLYCOL MONOETHYL ETHER</td>
<td>3-6</td>
<td>25-</td>
<td>NE</td>
<td>5</td>
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</tbody>
</table>

- As recommended by manufacturer
NA - Not available
NE - Not established
(1) - Acute Oral LD 50 Rabbit
(2) - Dermal LD 50 Rabbit
(3) - SARA 313 REPORTABLE
(4) - Contains a SARA 313 reportable material which may include xylene, toluene, and ethylbenzene. Percent may vary due to the distillation process.
Care should be taken when sanding pigmented paints. Airborne nuisance particles have an ACGIH TLV for total dust of

SECTION III - PHYSICAL DATA

VOL. PERCENT VOLATILE - 47-57
SPECIFIC GRAVITY - 1.01-1.33
WEIGHT PER LITER - 5.13 lbs./gal.
BOILING RANGE - 135-192 C or 278-381 F
VOC OF MATERIAL - 421-508 g/l or 3.51-4.24 lbs./gal
FREEZING POINT - NAP
pH - NAP

EVAPORATION RATE - Slower than Ether
COEFFICIENT OF WATER/OIL NAP
ODOR AND APPEARANCE - Liquid w/Solvent
ODOR THRESHOLD - .05 PPB
PHYSICAL STATE - Viscous Liquid
VAPOR DENSITY - Heavier than Air

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DANGER! – FLAMMABLE
VAPORS MAY CAUSE FLASH FIRE
Sensitivity to Static Discharge - Grounding/Bonding required
Extinguishing Media - Dry Chemical, Foam or CO2
Flash Point 27 C or 80 F TCC  LEL 0.9%
Autoignition Temperature 379 C/715 F  UEL 8.5%

UNUSUAL FIRE AND EXPLOSION HAZARDS – Keep away from heat, sparks and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-
explosion proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances, and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES – Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO2, Dry Chemical, Foam or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE:

EYES – Corneal burns are possible but damage is usually reversible. Can cause severe irritation, redness, tearing, blurred vision. Can cause severe injury - damage reversible.

INGESTION – HARMFUL IF SWALLOWED : Can cause gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhea. Small amounts of the liquid aspirated into the respiratory system during ingestion or from vomiting, may cause bronchiopneumonia or pulmonary edema. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. May cause signs of nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue.)

INHALATION – Excessive inhalation of vapors can cause nasal and respiratory irritation. Inhalation can cause CNS depression including fatigue, weakness, headache, dizziness, nausea, vomiting, unconsciousness, coma, respiratory failure and death.

SKIN – Can be absorbed in toxic amounts, especially from prolonged or repeated exposure. Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Skin contact of high concentrations of vapor may cause irritation and toxic effects, including CNS depression, lung, liver and kidney injury. Symptoms include headache nausea, vomiting and dizziness. This product has produced fetotoxic and teratogenic effects in laboratory animals when inhaled or absorbed through the skin. Pregnant women should avoid exposure to this product.

CHRONIC EFFECTS OF OVEREXPOSURE:
– Chronic overexposure to iron oxide fumes or dusts has been associated with x-ray changes of the lungs, however, it does not result in illness. Changes are due to a benign lung condition called siderosis or iron pigmentation (applicable to topcoats containing iron oxide pigments).
– Overexposure to this material or its components may cause the following effects in laboratory animals and/or humans: liver abnormalities, kidney damage, lung damage, anemia, eye damage, cardiac abnormalities, cardiovascular system damage, blood disorders, menstrual and fertility disorders, testicular damage, birth defects which may include: fetotoxicity, embroytoxicity, infertility and fetal malformations.

NOTICE! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PER CALIFORNIA’S PROPOSITION 65 - WARNING: This product contains a chemical known by the state of California to cause cancer, birth defects or reproductive harm.
VENTILATION/RESPIRATORY PROTECTION

- Use only with adequate ventilation. Maintain continuous flow of fresh air. Do not breathe vapors, spray mists, or sanding dusts. Wear appropriate properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor and particulate levels are below applicable limits. Follow respirator manufacturer’s directions for respirator use. Engineering or administrative controls should be implemented to reduce exposure. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

SECTION VII - SPILL OR LEAK PROCEDURES

SMALL SPILL
- Absorb liquid on inert material such as paper, vermiculite, floor absorbent, and transfer to hood.

LARGE SPILL
- Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert material such as sand, clay, earth, or floor absorbent, and shoveled into containers with non-sparking tools. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

WASTE DISPOSAL METHOD
- Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers.

SECTION IX - SPECIAL PRECAUTIONS AND ADDITIONAL COMMENTS

- Keep container tight and upright to prevent leakage. Keep container closed when not in use. Do not store above 49 C/120 F. Do not transfer contents to bottles or other unlabeled containers. Containers of this material may be hazardous when emptied because they retain product residues (vapor, liquid, and/or solid). When empty, may contain explosive vapors. Do not cut, puncture or weld on or near this container. All hazard precautions given in this data sheet must be observed for empty containers.

- This product may be blended with other products prior to use. Read all warnings and precautions on the MSDSs and labels of all products being blended as the combination may contain the hazards of each component.

- Any recommendation of Munro contained herein covering use utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, Munro makes no warranty or representation with respect thereto. Use of application of any Munro products is at the discretion of the Buyer without liability or obligation whatsoever of Munro.

- This product is for use by professional, trained personnel using proper equipment, and is not intended for sale to, or use by the general public.

THE INFORMATION CONTAINED HEREIN IS INFORMATION RECEIVED FROM OUR RAW MATERIAL SUPPLIERS AND OTHER SOURCES AND IS BELIEVED TO BE RELIABLE. THIS DATA IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH MUNRO ASSUMES LEGAL RESPONSIBILITY.

TUB REFINISHING, INC. DBA MUNRO PRODUCTS
MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS
DATE OF PREPARATION - 01-03-2009
Prepared by: Compliance Dept.

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MANUFACTURER: Munro Products
DISTRIBUTOR: 9150 Clarence Center Road
Clarence Center, NY 14032
INFORMATION: 716/741-9450
EMERGENCY: CHEMTREC® 1-800-424-9300
PRODUCT CLASS: MODIFIED RESIN CATALYST (TRADE SECRET)
TRADE NAME: BathWorks DIY Refinishing Kit (Part B Base Hardener)
CODE: Base Hardner (Part B)

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>CHEMICAL NAME</th>
<th>ACGIH TLV (PPM)</th>
<th>OSHA PEL (PPM)</th>
<th>VAPOR PRESSURE (mm Hg @ 20°C)</th>
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<tbody>
<tr>
<td>ENEZNEB (LYHTE)</td>
<td>DIMETHYL BENZENE</td>
<td>3</td>
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<td>10</td>
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<td>86</td>
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<tr>
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<td>METHYL BENZENE ACETATE</td>
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<td>20</td>
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<tr>
<td>TOLUENE</td>
<td>2 ETHOXY ETHYLETHANOL</td>
<td>25</td>
<td>NE</td>
<td>100</td>
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<td>CELLOSOVL ACETATE</td>
<td>BURET OF 1,6 HEXAMETHYLENE DISCETE</td>
<td>41</td>
<td>0.02</td>
<td>0</td>
</tr>
</tbody>
</table>

*Values given are in mg/M3
Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10mg/M3

This material does not contain intentionally added ingredients which are base on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III - PHYSICAL DATA

WEIGHT PER GALLON: 8.33 LBS
VOLUME PERCENT VOLATILE: 64
BOILING RANGE: 168-382 F
VOC OF MATERIAL: 588 gms/1
EVAPORATION RATE: Slower than Ether
VAPOR DENSITY: Heavier than Air

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DANGER! – FLAMMABLE
VAPORS MAY CAUSE FLASH FIRE
FLASH POINT: 24 F TCC LEL: 1.10
AUTOIGNITION TEMPERATURE: 499 C / 930 F UEL: 7.0
EXTINGUISHING MEDIA: Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition including heaters, fans and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES: Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire use CO2, Dry Chemical, Foam or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE):
EYES: Liquid aerosols or vapors of the product are irritating and can cause tearing, redness, blurred vision, and swelling accompanied by a stinging sensation and maybe a feeling like that of fine dust in the eyes.
SKIN: Isocyanates react with skin protein and moisture and can cause irritation. Symptoms of skin irritation may be reddening, swelling, rash, scaling or blistering. Solvents can penetrate the skin causing effects similar to those identified under acute breathing symptoms. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove.
BREATHING: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. May also cause tightness in the chest. Isocyanate vapors or mist at concentrations above the suggested TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis with flu-like symptoms (e.g. fever, chills) has also been reported.
SWALLOWING: INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea. Can result in irritation and possible corrosive action in the mouth, stomach tissue and digestive tract.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):
– Loss of appetite and a bad taste may be noted at high concentrations of years.
– Narcotic effects have been noted.
– Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
– May cause injury to kidneys, liver, and lungs.
– Allergic skin or respiratory reaction may occur in some individuals. Respiratory sensitivity results in asthmatic-like symptoms or subsequent exposure even below the TLV. Skin sensitivity results in allergic
dermatitis which may include rash, itching, hives and swelling of extremities. In those who have developed a skin sensitization these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor-only exposure.

- High vapors may result in central nervous system depression.
- Hemorrhages into various vital organs have been noted.
- Coma may result from overexposure.
- As a result of previous repeated overexposure or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which include: chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in sever cases for several years. Chronic, overexposure to isocyanates has also been reported to cause lung damage, including decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent.

**WARNING!** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**WARNING!** Harmful or fatal if swallowed. Harmful if inhaled or absorbed through skin. Overexposure may cause blood disorders. Based on tests with laboratory animals, overexposure may cause reproductive disorders and birth defects.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Asthma and any other respiratory disorders (bronchitis, emphysema, hyperactivity), skin allergies, eczema.

Product ingredients appear on the following carcinogenic listings:

(IARC) NTP OSHA None of the above

**PRIMARY ROUTES OF ENTRY:** (X) SKIN (X) BREATHING (X) SWALLOWING

**FIRST AID:**

**IN CASE OF SKIN CONTACT:** Wash area thoroughly with soap and water. Remove soiled clothing. Get medical assistance if irritation persists. Wash clothing before reuse.

**IN CASE OF EYE CONTACT:** Flush with large amounts of water for at least 15 minutes. Get medical assistance.

**IF SWALLOWED:** Get MEDICAL ATTENTION IMMEDIATELY. DO NOT induce vomiting. Aspiration of material into lungs can cause chemical pneumonitis which may be fatal.

**IF INHALED:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.

**SECTION VI - REACTIVITY DATA**

**POLYMERIZATION:** May occur if in contact with moisture or other materials which react with isocyanates. May occur at temperatures over 400 F (204 C).

**STABILITY:** Stable

**MATERIALS TO AVOID:** Excess heat and/or oxidizing materials. Avoid contact with water, alcohols, amines, strong bases, metal compounds, or surface active materials. In addition Chlorosulfonic acid.

If container is exposed to high heat, it can be pressurized and possibly rupture explosively. Isocyanates react slowly with water to form CO2 gas. This gas can cause sealed containers to expand and possibly rupture explosively.

**HAZARDOUS DECOMPOSITION:** May decompose into fumes containing carbon monoxide, carbon dioxide, oxides of nitrogen, traces of HCN and HDI.

**SECTION VII - SPILL OR LEAK PROCEDURES**

**SMALL SPILL:** Absorb liquid on inert material such as paper, vermiculite, floor absorbent, and transfer to hood.

**LARGE SPILL:** Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area or spill until clean-up has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert materials such as sand, clay, earth, or floor absorbent, and shoveled into containers with non-sparking tools. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

**WASTE DISPOSAL METHOD:** Allow volatile portion of evaporate in hood being sure to allow sufficient time for vapors to completely clear hood duct work. Dispose of contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers.

**SECTION VIII - PROTECTIVE EQUIPMENT**

**VENTILATION/RESPIRATORY PROTECTION** Use only adequate ventilation. Maintain continuous flow of fresh air. Do not breathe vapors, spray mists, or sanding dusts. Wear appropriate, properly fitted respirator (NOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor, mist and particulate levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Engineering or administrative controls should be implemented to reduce exposure. Proved sufficient mechanical (general/local exhaust) ventilation to maintain exposure below TLV's.

**PERSONAL PROTECTIVE EQUIPMENT:** Do not get in eyes, or skin, or on clothing. Use solvent resistant safety eyewear with splash guards. Contact lenses should not be worn. Solvent impermeable gloves, clothing, and boots are recommended to prevent skin contact. In addition a respirator that is recommended or approved for use in isocyanate containing environments should be used. A positive pressure air supplied respirator (TC 19C NIOSH/MSHA) is recommended.

**SECTION IX - SPECIAL PRECAUTIONS AND ADDITIONAL COMMENTS**

Keep closure tight and upright to prevent leakage. Keep container closed when not in use. Do not store above 120F. Do not transfer contents to bottles or other unlabeled containers.

Containers of this material may be hazardous when emptied because they retain product residues (vapor, liquid, and/or solid). All hazard precautions given in this data sheet must be observed.

**IMPORTANT!** This product must be blended with other products prior to use. Read all warnings and precautions on the labels of all products being blended as the combination may contain the hazards of each component.

**NON WARRANTY:** The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. Nor warranty or guarantee expressed or implied is made regarding the performance of any product since the manner of use is beyond our control. No suggestion for product use nor anything contained herein shall be construed as a recommendation for its use in infringement of any existing patent, and Munro assumes no responsibility or liability for operations that do infringe any such patents.

**TUB REFINISHING, INC. DBA MUNRO PRODUCTS**
MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS
DATE OF PREPARATION - 01-03-2009
Prepared by: Compliance Dept.

SECTION I - PRODUCT IDENTIFICATION
MANUFACTURER: Munro Products
DISTRIBUTOR: 9150 Clarence Center Road
Clarence Center, NY 14032
INFORMATION: 716/741-9450
EMERGENCY: CHEMTREC® 1-800-424-9300
PRODUCT CLASS: RESIN ADHESIVE
TRADE NAME: BathWorks Liquid Primer
CODE: SR1003

SECTION II - HAZARDOUS INGREDIENTS
COMMON NAME        CHEMICAL NAME
                    OCCUPATIONAL-EXPOSURE LIMITS
TOLUENE            75  1.3  22/20 C  100 ppm 375 mg/m3 (TWA-ACGIH)
                   200 ppm (TWA-OSHA)
1-BUTANOL          <5  1.4  4.2/20 C  50 ppm 150 mg/m3 (Skin) (TWA-ACGIH)
                   100 ppm 330 mg/m3 (Skin) (TWA-OSHA)
2-BUTOXY ETHANOL   <5  1.1  0.6/20 C  25 mg 120 mg/m3 (Skin) (TWA-ACGIH)
                   200 mg/m3 (Skin) (TWA-OSHA)
ETHYL ALCOHOL      <5  3.3  44/20 C  1900 mg/m3 1000 ppm (TWA-ACGIH & OSHA)

SECTION III - PHYSICAL DATA
VOLUME PERCENT VOLATILE: 90
BOILING RANGE: 165-256 F
SOLUBLE: No
WEIGHT PER GALLON: 7.4 lbs
EVAPORATION RATE: Slower, than Ether
VAPOR DENSITY: Heavier than Air

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
FLASH POINT: 35 F TCC
LEL: 1.1
EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog, and Halon 1211.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat,
electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA
EFFECTS OF OVEREXPOSURE (ACUTE):
Irritation of the respiratory tract or central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma.

SKIN AND EYES: Irritant.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):
Permanent central nervous system changes can occur due to solvent overexposure. May cause system, liver, skin, eyes.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Respiratory allergies. Chronic diseases of the central nervous system, liver, skin, eyes.

PRIMARY ROUTES OF ENTRY: Dermal, Inhalation, Ingestion.

FIRST AID:
INHALATION: Move person to fresh air. Restore breathing. Treat systematically. Consult a physician.
EYES: Flush immediately with large amounts of water for at least 15 minutes. Consult a physician.
SKIN: Wash affected skin areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists.
INGESTION: Drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately.

SECTION VI - REACTIVITY DATA
HAZARDOUS POLYMERIZATION: Will not occur.
STABILITY: Stable
INCOMPATIBILITY (Materials to avoid): Strong acids and bases, halogens, ammonia.
CONDITIONS TO AVOID: High Temperatures.

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Avoid breathing vapors. Use self-contained breathing equipment. Ventilate area. Continue and remove with inert absorbent material and non-sparking tool.

DISPOSAL OF CONTENTS: Disposal should be done in accordance with Federal, State and Local regulations. Use licensed hazardous waste disposal concern.

SECTION VIII - PROTECTIVE EQUIPMENT
VENTILATION: Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits. Heavy solvent vapors should be removed from the lower levels of work area, and all ignition sources (non-explosion proof equipment) should be eliminated if flammable/air mixtures will be encountered.
RESPIRATORY PROTECTION: Use approved chemical/mechanical filters designed to remove a combination of particulates and organic vapor in open and restricted ventilation areas. Use approved airline type respirators or hoods in confined area.

PROTECTIVE GLOVES: Use neoprene or rubber gloves to prevent skin contact.

OTHER PROTECTIVE EQUIPMENT: Use protective cream if skin contact is likely. Use disposable or impervious clothing if work clothing contaminations likely.

HYGIENIC PRACTICES: Wash hands before eating, smoking or using the wash room. Do not smoke in any chemical handling storage area. Food or beverages should not be consumed anywhere this product is handled or stored.

SECTION IX - SPECIAL PRECAUTIONS AND ADDITIONAL COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store or use near heat or open flame. Store drum out of sun and away from heat. Keep closure tight and container upright to prevent leakage.

OTHER PRECAUTIONS: Drums of this material should be grounded and bonded when pouring. Do not puncture, drag or slide container. Empty drums should be reused. Do not get in eyes. Avoid skin contact. Prevent prolonged or repeated breathing of vapor or spray mists. Do not weld or flame-cut an empty drum.

NON WARRANTY: The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. Non warranty or guarantee expressed or implied is made regarding the performance of any product since the manner of use is beyond our control. No suggestion for product use nor anything contained herein shall be construed as a recommendation for its use in infringement of any existing patent, and Munro assumes no responsibility or liability for operations that do infringe any such patents.

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MATERIAL SAFETY DATA SHEET
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DATE OF PREPARATION - 01-03-2009
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SECTION I - PRODUCT IDENTIFICATION
MANUFACTURER: Munro Products
DISTRIBUTOR: 9150 Clarence Center Road
Clarence Center, NY 14032
INFORMATION: 716/741-9450
EMERGENCY: CHEMTREC® 1-800-424-9300
PRODUCT NAME: SLIP GUARD ADDITIVE
TRADE NAME: BathWorks Fine Grit
CODE: Slip Guard Additive

SECTION II - HAZARDOUS INGREDIENTS
COMMON NAME CHEMICAL NAME
POLYPROPYLENE PIGMENT 1-PROPENE HOMOPOLYMER POLYOLEFINS CAS #9003-07-0
HMIS+ RATING
Polypropylene Texturing Pigment and Flattening Agents
Health hazard: 0 Minimal
Flammability hazard: 1 Slight
Reactivity hazard: 0 Minimal
APPEARANCE AND ODOR: White particulate; odorless

Hazardous Ingredients Recommended Atmosphere Levels**
Polypropylene

10 mg/m³ total
5 mg/m³ respirable

Our supplier interprets the U.S. Occupational Safety and Health Act and Regulations, including the Hazard Communication Standard 29 CFR 1910.1200 dated November 25, 1983, this product should NOT be considered a health hazard material.

**Air level recommended by our supplier.

SECTION III - PHYSICAL DATA
BOILING POINT: NA
VAPOR PRESSURE @ 20 degree C: NA
VAPOR DENSITY: Negligible at 20 degree C
% VOLATILE (vol.): N / A
FREEZING POINT: NA
SOLUBILITY IN WATER: Negligible
SPECIFIC GRAVITY: 0.9
pH: NA
EVAPORATION: NA

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
CAUTION! MAY FORM FLAMMABLE DUST-AIR MIXTURES.
FLASH POINT: 276 degree C (530 degree F) COC, ASTM D57-92
AUTOIGNITION TEMPERATURE: Not determined
EXTINGUISHING MEDIA: Water spray, dry chemical, foam, carbon dioxide or halon.
SPECIAL FIRE-FIGHTING PROCEDURES: None
UNUSUAL FIRE & EXPLOSION HAZARDS: May form flammable dust-air mixtures.
STABILITY CONSIDERATIONS: Stable
INCOMPATIBILITY WITH: Avoid contact with hot or concentrated nitric and perchloric acids, fuming sulfuric acid or 98% sulfuric acid at 60 degrees C (140 degree F) or above.
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS PRODUCTS OF COMBUSTION: Combustion products depend on temperature, other materials present and air supply. They can be carbon monoxide, carbon dioxide, acrolein, formaldehyde, other aldehydes, ketones, fatty acids, methane, ethane and unsaturated hydrocarbons. Carbon monoxide is the most prominent.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION V - HEALTH HAZARD DATA
SIGNS AND SYMPTOMS OF OVEREXPOSURE IN THE WORKPLACE: None known
EMERGENCY AND FIRST AID PROCEDURES: Not applicable.
MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Not Known
PRIMARY ROUTE OF ENTRY: Inhalation
Not evaluated for carcinogenicity by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program) or the OSHA (Occupational Safety & Health Administration). There is no evidence of carcinogenicity in any animal species.
REPORTED HUMAN EFFECTS: None known
REPORTED ANIMAL EFFECTS: None known

SECTION VI - SPECIAL PRECAUTIONS AND ADDITIONAL COMMENTS
SPECIAL NOTATION:
Munro Products, BathWorks, TubWorks & Tub Refinishing, Inc. are not responsible for accidents related to the application of the slip guard products on bathtubs, shower bases or other areas needing the slip guard application. The customer should test, maintain and care for all slip guard areas through the life time of the slip guard application. Special attention, caution and maintenance is recommended.

NON WARRANTY
The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the performance of any product, since the manner of use is beyond our control. No suggestion for product use, nor anything contained herein, shall be construed as a recommendation for its use in infringement of any existing patent, and Munro assumes no responsibility or liability for operations that do infringe any such patents.

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