# **Material Safety Data Sheet**



**BRAWN** 

#### Section 1. Chemical product and company identification

Trade name : BRAWN Product use : Delimer

Supplier : Ecolab, Professional Products Division

370 Wabasha Street N St. Paul MN 55102 5105 Tomken Road Mississauga ON L4W 2X5

1-800-352-5326

Code : 999180

Date of issue : 03-October-2005

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Composition, Information on Ingredients

 Name
 CAS number% by weight

 Phosphoric acid
 7664-38-2
 15 - 40

 nitric acid
 7697-37-2
 7 - 13

#### Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : DANGER!

CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.

HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or clothing. Do not breathe vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly

after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

**Inhalation** : Corrosive to the respiratory system.

**Ingestion** : Harmful if swallowed. Causes burns to mouth, throat and stomach.

See toxicological Information (section 11)

# Section 4. First aid measures

**Eye contact**: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and

continue flushing with plenty of water for at least 15 minutes. Obtain medical attention

immediately.

**Skin Contact**: In case of contact, immediately flush skin copiously with water for at least 15 minutes while

removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes

thoroughly before reuse. Obtain medical attention immediately.

**Inhalation**: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

give oxygen. Obtain medical attention immediately.

**Ingestion**: Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give

anything by mouth to an unconscious person. Obtain medical attention immediately.

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#### Section 5. Fire fighting measures

Auto-ignition temperature

Flash point

Flammable limits

: Not available. : > 100°C

Upper: Not available.

Lower: Not available.

Products of combustion : Not available.

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for surrounding fires.

Dike area of fire to prevent product run-off.

No specific hazard.

Special protective equipment

for fire-fighters

: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### Section 6. Accidental release measures

Personal Precautions

: Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.

Environmental precautions Methods for

cleaning up

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

: If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.--

# Section 7. Handling and storage

Handling

: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. Wash thoroughly after handling.

Storage

: Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Store between 10 and 50°C

## Section 8. Exposure Controls, Personal Protection

**Engineering** controls

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes

 Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hands

: Use chemical resistant, impervious gloves.

Skin

: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Exposure limits

Name

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Phosphoric acid ACGIH TLV (United States, 9/2004).

STEL: 3 mg/m<sup>3</sup> 15 minute(s). Form: All forms TWA: 1 mg/m<sup>3</sup> 8 hour(s). Form: All forms

nitric acid ACGIH TLV (United States, 1/2004).

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: All forms STEL: 4 ppm 15 minute(s). Form: All forms TWA: 5.2 mg/m<sup>3</sup> 8 hour(s). Form: All forms TWA: 2 ppm 8 hour(s). Form: All forms

#### Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.) Colour Blue. (Light.) Odour Acetic acid. 0 (100%) Ha : 100 °C Boiling/condensation point Melting/freezing point : Not available. Specific gravity : 1.229 (Water = 1) : Not applicable. Vapour pressure Vapour density : Not available. Odour threshold : Not available. : Not available. **Evaporation rate** Log Kow : Not available.

#### Section 10. Stability and reactivity

**Stability**: The product is stable.

**Conditions of instability**: Not available.

**Reactivity**: Highly reactive with alkalis.

Slightly reactive to reactive with metals.

**Incompatibility with various:** Not available.

substances

**Hazardous Decomposition**: Not available.

**Products** 

### Section 11. Toxicological information

#### Potential acute health effects

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

**Inhalation** : Corrosive to the respiratory system.

**Ingestion**: Harmful if swallowed. Causes burns to mouth, throat and stomach.

Irritancy of Product : Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects: No known significant effects or critical hazards.Mutagenic effects: No known significant effects or critical hazards.Teratogenic effects: No known significant effects or critical hazards.Reproductive effects: No known significant effects or critical hazards.Sensitization to Product: No known significant effects or critical hazards.

Synergistic Products : Not available.

(Toxicologically)

**Toxicity data** 

Ingredient name Test Result Route Species Phosphoric acid LD50 1530 mg/kg Oral Rat LD50 2740 mg/kg Dermal Rabbit nitric acid LDLo 430 mg/kg Oral human

Target organs : Contains material which causes damage to the following organs: lungs, mucous

membranes, upper respiratory tract, skin, eye, lens or cornea, teeth.

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# Section 12. Ecological information

Products of degradation : These

: These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub>

...), phosphates.

### Section 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

# **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional Information
TDG Classification	UN1760	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, nitric acid)	8	II	-

#### APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

### Section 15. Regulatory information

WHMIS : Class E: Corrosive material.

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

#### Section 16. Other information

Date of issue : 03-October-2005.

Responsible name : Regulatory Affairs

Date of previous issue : No Previous Validation.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.