

MATERIAL SAFETY DATA SHEET

Product name: **MILD ALKALINE DETERGENT**
Last revised date: 5 December 2013
Print date: 18 December 2013

1. SUBSTANCE AND SUPPLIER IDENTIFICATION

PRODUCT NAME: Mild Alkaline Detergent

MANUFACTURER: Germiphene Corporation
ADDRESS: 1379 Colborne Street East, Brantford, Ontario N3T 5M1, Canada
PHONE: 519-759-7100
FAX: 519-759-1625

EMERGENCY PHONE: CANUTEC 613-996-6666

PRODUCT USE: Concentrated manual and ultrasonic cleaner

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT: N-Methyl 2-Pyrrolidone

CAS NO 872-50-4 % **WT** 12-19

HAZARDOUS: May cause irritation to skin and eyes.

INGREDIENT: Caprylyl Pyrrolidone

CAS NO 2687-94-7 % **WT** 0.8-1.3

HAZARDOUS: Corrosive. Causes eye burns. Causes permanent skin damage.

INGREDIENT: L(+) Lactic Acid

CAS No 79-33-4 % **wt** 0.7-1.4

HAZARDOUS: May cause irritation to eyes, skin and respiratory tract.

INGREDIENT: Sodium Nitrite

CAS No 7632-00-0 % **wt** 0.09-0.14

HAZARDOUS: May cause irritation to eyes, skin and respiratory tract

INGREDIENT: Sodium Hydroxide Pellets

CAS NO 1310-73-2 % **WT** 0.8-1.3

HAZARDOUS: Corrosive. May cause severe eye, skin burns. Corrosive to the respiratory passage.

INGREDIENT: Boric acid

CAS NO 10043-35-3 % **WT** 0.5 - 1.7

HAZARDOUS: May cause irritation to skin, eyes and respiratory tract.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Harmful if swallowed. May cause eye and skin irritation.

INHALATION: May cause respiratory tract irritation.

INGESTION: May cause gastro-intestinal upset.

SKIN ABSORPTION: No adverse effects with normal skin.

SKIN CONTACT: May cause skin irritation.

EYE CONTACT: Eye irritant in case of direct contact.

4. FIRST AID MEASURES

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EYES: Immediately flush eyes with water for at least 15 minutes, holding the eyelids open. If irritation persists, contact physician.
SKIN: Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.
INHALATION: Remove person to fresh air.
INGESTION: Induce vomiting immediately as directed by medical personnel. Contact a physician immediately.

5. FIREFIGHTING MEASURES

FLAMMABILITY: N/Av
COMBUSTIBLE: Yes
EXTINGUISHING MEDIA: Apply all-purpose type foams by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. Water is suitable.
HAZARDOUS DECOMPOSITION PRODUCTS: Nitrous oxides, carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Contain spilled material. Provide adequate ventilation. Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. HANDLING AND STORAGE

HANDLING AND STORAGE: Keep away from heat in a cool well-ventilated area. Protect from freezing. Keep container closed when not in use. Avoid breathing vapours. Avoid contact with eyes.

OTHER PRECAUTIONS: Good personal hygiene practices are suggested.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use adequate ventilation.
RESPIRATORY PROTECTION: Avoid breathing vapours.
EYE PROTECTION: Avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear to pale yellow transparent liquid
ODOUR: Mild
PHYSICAL STATE: Liquid
PH @ 22°C: 8.00-11.00

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BOILING POINT: Above 100°C
MELTING POINT: N/Av
FREEZING POINT: Below 0°C
DENSITY @ 25 ± 1°C: 0.900 – 1.100
EVAPORATION RATE: N/Av
SOLUBILITY IN WATER: Soluble

10. STABILITY AND REACTIVITY

STABILITY: N/Av
CONDITIONS TO AVOID (STABILITY): N/Av
INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing materials

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Burning can produce carbon monoxide and carbon dioxide, ammonia and nitrous oxides (small amounts).

11. TOXICOLOGICAL INFORMATION

N-METHYL 2-PYRROLIDONE Oral rat LD50 4,200 mg/kg
Dermal rat LD50 8,000 mg/kg
Accute inhalation rat >5.1 mg/L (4h)

CAPRYLYL PTRROLIDONE Oral rat LD50 2050 mg/kg
Dermal rabbit LD50 > 2000 mg/kg

LACTIC ACID Oral rat LD50 3730 mg/kg
Oral mouse LD50 4875 mg/kg
Dermal rabbit LD50 mg/kg

SODIUM NITRITE Oral mouse LD50 175 mg/kg
Oral rabbit LD50 186 mg/kg
Oral rat LD50 180 mg/kg

BORIC ACID Oral rat LD50 2660 mg/kg
Oral woman LDLo 200 mg/kg
Investigated as a mutagen, tumorigen, reproductive effector.

12. ECOLOGICAL INFORMATION

N/Av

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: According to state, federal, provincial, and local regulations.

14. TRANSPORT INFORMATION

COMBUSTIBLE

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15. REGULATORY INFORMATION

N/Av

16. OTHER INFORMATION

Prepared by: Germiphene Technical Department

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