

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: Scale Away (#1011)

Recommended use: Descaler

Manufacturer: EnviroWay Detergent Manufacturing Incorporated
2241 Hanselman Ave.
Saskatoon, SK S7L 6A7, Canada
Tel: 306-244-7727
Fax: 306-244-7772
Toll free: 1-888-274-0862, www.envioway.ca

Emergency phone:

Leak and Spill: 1-800-667-7525 (SASK SPILLS) for the Province of Saskatchewan
1-866-845-6037 (Environment Canada) for anywhere else

In Transit: 1-613-996-6666 or *666 on cellular phone (CANUTEC)

Poison Control: 1-866-454-1212 (Saskatchewan)

SECTION 2: HAZARD IDENTIFICATION

CONCENTRATE HAZARDS:

Hazard classification

| | |
|-------------------------------|-------------|
| Acute toxicity (oral) | Category 5 |
| Skin corrosion/irritation | Category 1B |
| Serious eye damage/irritation | Category 1 |
| Corrosive to metals | Category 1 |

Signal word Danger



Hazard statements

May be harmful if swallowed.
Causes severe skin burns and eye damage.
May be corrosive to metals.

Precautionary statements

Prevention Keep only in original packaging.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, and face protection.
Do not breathe mist, vapours or spray.

Response Absorb spillage to prevent material-damage.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Immediately call a POISON CENTRE or doctor/physician.

Storage Store locked up.
Disposal Dispose of in accordance with local regulations at government approved waste sites.

SECTION 3: COMPOSITION

The following ingredients have hazardous properties:

| Ingredient | CAS # | % by weight |
|-----------------|-----------|-------------|
| Phosphoric acid | 7664-38-2 | 60-70 |

Ingredients not shown are either not hazardous or present below cut-off values. Ranges shown are due to batch-to-batch variation.

SECTION 4: FIRST AID MEASURES

IF SWALLOWED: if swallowed, rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor/physician. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE/doctor.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammable: No
Means of Extinction: In case of fire: Use dry chemicals, CO₂, alcohol foam or water spray.
Special Fire Fighting Procedures: Use water spray to keep containers cool. Fire fighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Mop spillage. Use a water rinse for final cleanup.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Wear protective gloves, protective clothing, eye protection, and face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mist, vapours or spray. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Storage Requirements: Store in a dry, cool, well-ventilated area. Store away from direct sunlight and heat. Do not allow to freeze. Store in original container with closed lid, away from incompatible materials such as strong oxidizing agents. Store locked up.

SECTION 8: PERSONAL PROTECTION

| Ingredient | Exposure limit – ACGIH | Exposure limit – OSHA | Exposure limit – IDLH |
|-----------------|---------------------------|--------------------------|---|
| Phosphoric acid | (STEL)3 mg/m ³ | (TWA)1 mg/m ³ | (TWA)1 mg/m ³ , (STEL)3 mg/m ³ |

Gloves: Wear protective gloves.

Eye: Wear eye and face protection.

Clothing: Wear protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: yellow liquid

Odour: distinct musty odour

Odour Threshold (ppm): Information not available

pH: 1.2

Freezing Point: -20°C

Initial Boiling Point/Range: 110°C

Flash point: Information not available

Evaporation Rate: Slow

Flammability: Not flammable

Upper/lower flammability/explosive limit: Information not available

Vapour Pressure (mmHg): Not known

Vapour Density (air = 1): >1

Relative density: 1.13

Solubility in Water: Miscible

Partition coefficient: Information not available

Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Materials to Avoid: Fluorine, strong oxidizing agents, strong reducing agents, strong bases, metals, sulphur trioxide, phosphorus pentoxide.

Hazardous Decomposition Products: May release phosphoric oxides on thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

| Ingredient | LD50 oral (mg/kg) (rat) | LD50 dermal (mg/kg) | LC50 inhalation (mg/L) |
|-----------------|-------------------------|---------------------|------------------------|
| Phosphoric acid | 1530 | 2740 | 0.8445 |

EFFECTS OF ACUTE EXPOSURE:

Ingestion: May cause nausea, vomiting, and gastrointestinal irritation and diarrhoea. May be harmful if swallowed.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes severe eye damage.

Germ cell mutagenicity: Not applicable

Carcinogenicity: Not applicable

Reproductive toxicity: Not applicable

STOT single exposure: Not applicable

STOT repeated exposure: Not applicable

Aspiration hazard: Not applicable

Routes of exposure: Ingestion, inhalation, skin/eye exposure

EFFECTS OF CHRONIC EXPOSURE:

Skin Contact: Not known.

Eye Contact: Not known.

Ingestion: Not known

Numerical measures of toxicity:

Oral: LD50 2219mg/kg

Dermal: LD50 3975mg/kg

Inhalation: LC50 1.22mg/L

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

| Ingredient | Fish | Crustaceans | Algae |
|-----------------|--|---------------|---------------|
| Phosphoric acid | 24-hour TLm = 138 ppm (Mosquito Fish, Fresh water) | Not available | Not available |

Persistence and Degradability: Biodegradable.

Bioaccumulation/Accumulation: No bioaccumulation expected.

Mobility: Mobile in soil.

Other adverse effects: Dangerous to aquatic life in high concentrations. Phosphate has indirect long term effect on ecosystems due to eutrophication.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local regulations at government approved waste sites.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Information: None

TDG (Canada):

TDG Proper Shipping Name: Phosphoric Acid Solution

Hazard Class: 8

UN Number: UN1805

Packing Group: III

Note: No additional remark.

Marine Pollutant: None

SECTION 15: REGULATORY INFORMATION

Canadian DSL Inventory Status: All ingredients are specified on the Domestic Substances List or exempt

SECTION 16: OTHER INFORMATION

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