



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Dynamic CAS# Mixture

Product UseDescaler - Cleaner - BrightenerManufacturerFrank's Maintenance Products Inc.

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CANUTEC (613) 996-6666

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



2. Hazards Identification

Emergency Overview DANGER -- CORROSIVE

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion. **Eyes** Causes chemical burns. May cause blindness.

Skin Causes chemical burns.

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

3. Composition/Information on Ingredients

Ingredient(s)	CAS#	Percent
Alcohols, C12-16, ethoxylated	68551-12-2	1 - 5
Phosphoric acid	7664-38-2	30 - 60

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with water. Wash with soap and water. Obtain medical attention if

irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide. Water spray. Alcohol foam.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Toxic fumes.

Explosion data

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do

not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas.

Methods for cleaning upBefore attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material. Do not get this material

in your eyes, on your skin, or on your clothing.

Storage Keep out of the reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s) Exposure limits

Alcohols, C12-16, ethoxylated ACGIH-TLV

Not established

Phosphoric acid ACGIH-TLV

TWA: 1 mg/m3 STEL: 3 mg/m3

Engineering controlsUse only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye/Face protection Wear chemical goggles.

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Use good industrial hygiene practices in handling this material. When using do not eat

or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance Clear.
Colour Colourless

Form Liquid Odour Neutral

Odour threshold Not available

Physical state Liquid

pH 1

Melting pointNot availableFreezing pointNot availableBoiling pointNot availableFlash pointNot availableEvaporation RateNot availableFlammability limits in air, lower, %Not available

by volume

Flammability Limits in Air, Upper, % Not available

by Volume

Not available Vapour pressure Not available Vapour density Not available Specific gravity Octanol/water coefficient Not available Solubility (H2O) Not available **Auto-ignition temperature** Not available VOC (Weight %) Not available Softening point Not available Viscosity Not available Percent volatile Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals. Reacts violently with alkaline material. This product

may react with reducing agents.

Incompatible materialsBases. Reducing agents.

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Toxic fumes.

Possibility of hazardous reactions Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Alcohols, C12-16, ethoxylated Not available

Phosphoric acid Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Alcohols, C12-16, ethoxylated 1380 mg/kg rat

Phosphoric acid 1530 mg/kg rat

Effects of acute exposure

Eye Causes chemical burns. May cause blindness.

Skin Causes chemical burns.

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

SensitisationNon-hazardous by WHMIS criteria.Chronic effectsNon-hazardous by WHMIS criteria.CarcinogenicityNon-hazardous by WHMIS criteria.MutagenicityNon-hazardous by WHMIS criteria.

Reproductive effects TeratogenicityNon-hazardous by WHMIS criteria.

Non-hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicity effectsBecause of the low pH of this product, it would be expected to produce significant

ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Ecotoxicity - Freshwater Fish Species Data

Phosphoric acid 7664-38-2 96 Hr LC50 Gambusia affinis: 3-3.5 mg/L **Ecotoxicity - Water Flea Data**

Phosphoric acid 7664-38-2 12 Hr EC50 Daphnia magna: 4.6 mg/L

Environmental effects

Aquatic toxicity

Persistence and degradability

Bioaccumulation/accumulation

Partition coefficient

Mobility in environmental media

Chemical fate information

Not available

Not available

Not available

Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

Transportation of Dangerous Goods (TDG)

Basic shipping requirements:

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Hazard class (Phosphoric acid)

UN number 8

Packing group

Additional information:

Special provisions 16



15. Regulatory Information

Canadian federal regulations 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.

Canada - WHMIS - Ingredient Disclosure List

Phosphoric acid 7664-38-2 1 %

WHMIS classification Class E - Corrosive Material

WHMIS status Controlled

WHMIS labeling



A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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