



## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label : Endcor Rust Rinse  
Product Code(s) : 450

Recommended use of the chemical and restrictions on use : Corrosion Removing Compound  
Use pattern : Professional Use Only  
Recommended restrictions : None Known.  
Chemical family : Mixture.

Name, address, and telephone number of the manufacturer:

Dampney Company, Inc.  
85 Paris Street  
Everett, Massachusetts, U.S.A. 02149  
Email: sales@dampney.com  
Supplier's Telephone # : (617) 389-2805

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.)

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical  
Clear liquid. Odorless.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Acute Toxicity – Oral - Category 4  
Acute Toxicity – Inhalation – Category 4  
Skin Corrosion/Irritation – Category 1  
Serious Eye Damage/Eye Irritation – Category 1  
Flammable Liquids – Category 4  
Corrosive to Metals – Category 1

Hazard pictogram(s)  
GHS-05 Corrosive  
GHS-07 Exclamation Mark



Signal Word  
DANGER!

Hazard statement(s)  
H227 Combustible liquid.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H290 May be corrosive to metals.

#### PREVENTION:

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P260 Do not breathe dust, fume, gas, mist, vapours, or spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing, eye protection, and face protection.  
P234 Keep in original container.

#### RESPONSE:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P310 Immediately call a POISON CENTER, doctor, or hospital emergency room.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

STORAGE:  
P403 + P233 (S) Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

DISPOSAL:  
P501 Dispose of contents and empty container in accordance with local, state and federal regulations.

Other hazards  
Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS #	Concentration (% by weight)
85% Phosphoric Acid	7664-38-2	51.68
2-Butoxyethanol	111-76-2	11.04
Polyethylene glycol tert-octylphenyl ether	9002-93-1	1.63

### SECTION 4. FIRST-AID MEASURES

Description of first aid measures

*Ingestion* : IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting.

*Inhalation* : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

*Skin contact* : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

*Eye contact* : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Most important symptoms and effects, both acute and delayed

: May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Causes skin irritation. Symptoms may include redness, itching and swelling. Direct eye contact may cause immediate severe irritation progressing quickly to chemical burns. Ingestion may cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Indication of any immediate medical attention and special treatment needed

: No additional information available.

### SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

*Suitable extinguishing media*: Use extinguishing media appropriate for surrounding fire.

*Unsuitable extinguishing media*: Do not use water jet, as this may spread burning material.

Special hazards arising from the substance or mixture / Conditions of flammability  
No hazardous combustion products are known.

Flammability classification (OSHA 29 CFR 1910.106)  
: Category 4

Hazardous combustion products: Carbon oxides ; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters  
*Protective equipment for fire-fighters*



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: *Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.*

*Special fire-fighting procedures:* Do not allow run-off from fire fighting to enter drains or water courses. Prevent fire extinguishing water from contaminating surface water or the ground water system.  
 Dike for water control.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:  
 : Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapour or mist. Restrict access to area until completion of clean-up. All persons dealing with the clean-up should wear the appropriate personal protective equipment.

Environmental precautions : Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Neutralize with powdered limestone or sodium bicarbonate. Contaminated absorbent material may pose the same hazards as the spilled product. Pick up and transfer to properly labeled containers. Contact the proper local authorities.

Special spill response procedures: In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.

**SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Wear protective gloves and eye/face protection. Avoid breathing vapour or mist. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials. Encourage good housekeeping and personal hygiene.

Conditions for safe storage : Store in well-ventilated place. Keep cool. Store locked up. Keep container tightly closed. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Strong bases.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	OSHA STEL
Phosphoric acid	TWA 1 mg/m3	TWA: 1 mg/m3	None established
2-Butoxy ethanol	20 ppm	240 mg/m3	None established
Polyethylene glycol tert-octylphenyl ether	None established	None established	None established

Exposure controls

Ventilation and engineering measures: Provide sufficient ventilation to keep vapors below the permissible exposure limit. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Skin protection: Wear protective gloves. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection: Chemical safety goggles and full face shield. Do not wear contact lenses.

Respiratory protection: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH-approved respirator is advised. Use respirator approved for acid fumes



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and mist.

Other protective equipment: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odour	: Clear liquid. Odorless.
Odour threshold	: N/A
pH	: 2
Melting/Freezing point	: N/A
Boiling range	: 302.0 – 392.0°F
Flash point	: N/A
Evaporation rate (BuAe = 1)	: 0.008 Slower than n-Butyl Acetate.
Vapour pressure Vapour density	: N/A
Relative density / Specific gravity	: 1.312
Weight per gallon	: 10.9 lbs
% Volatile by volume	: 63.0
% Solids by volume	: 47.0
VOC	: 2.08 lbs/gallon

Store in plastic containers.

### SECTION 10. STABILITY AND REACTIVITY

Incompatibility: Avoid contact with bases.

Conditions to avoid: Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.

Hazardous decomposition products: Under conditions of fire this material may produce: None known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation. Causes symptoms similar to those listed for inhalation.

Sign and symptoms skin

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin Irritation - Causes skin burns and eye damage.

Sign and symptoms eyes

: Direct eye contact may cause serious eye damage.

Potential Chronic Health Effects

: None known.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: Not classified.

Reproductive effects & Teratogenicity

: Not classified.

Sensitization to material

: Not classified.

Specific target organ effects single exposure.

: May cause respiratory irritation.



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Medical conditions aggravated by overexposure  
 : None known.

Synergistic materials  
 : None reported by the manufacturer.

Toxicological data  
 : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. See below for individual ingredient acute toxicity data.

Chemical name	LC50(4hr) Inhalation rat	LD50	
		(Oral, rat)	(Rabbit, dermal)
85% Phosphoric Acid	N/A	3,500 mg/kg	>1,260 mg/kg
2-Butoxyethanol	550 ppm	745 mg/kg	1,250 mg/kg (Rat)
Polyethylene glycol tert-octylphenyl ether	N/A	1,800 mg/kg	N/A

**SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity  
 : Contains material that may be harmful in the environment. Should not be released into the environment. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish
		LC50 / 96h
85% Phosphoric acid	7664-38-2	138 mg/L (mosquito fish)
2- Butoxyethanol	111-76-2	1,440 mg/l (rainbow trout)
Polyethylene glycol tert-octylphenyl ether	9002-93-1	2,8 mg/L (Bluegill)

Ingredients	CAS No	Toxicity to Daphnia
		EC50 / 48h
85% Phosphoric acid	7664-38-2	100 mg/L (Desmodesmus subspicatus)
2- Butoxyethanol	111-76-2	1,800 mg/L (Water flea)
Polyethylene glycol tert-octylphenyl ether	9002-93-1	11.2 mg/L (Daphnia magna)

Ingredients	CAS No	Toxicity to Algae
		EC50 / 96h or 72h
85% Phosphoric acid	7664-38-2	No data available
2- Butoxyethanol	111-76-2	911 mg/L (Green algae)
Polyethylene glycol tert-octylphenyl ether	9002-93-1	N/A

Persistence and degradability  
 : No data is available on the product itself.

Bioaccumulation potential  
 : No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Handling for Disposal  
 : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Dispose in accordance with local, state and federal regulations.



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**SECTION 14. TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN3066	Paint related material	8	III	
Additional information	None.				
TDG	UN3066	Paint related material	8	III	
Additional information	None.				
IMDG	UN3066	Paint related material	8	III	
Additional information	None.				
ICAO/IATA	UN3066	Paint related material	8	III	
Additional information	None.				

Special precautions for user: Corrosive.  
 Environmental hazards: See ECOLOGICAL INFORMATION, Section 12.

**SECTION 15 - REGULATORY INFORMATION**

US Federal Information:  
 Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
85% Phosphoric acid	7664-38-2	Yes	5,000 lbs	None	No	n/a
2-Butoxyethanol	111-76-2	Yes	N/A	None	No	n/a
Polyethylene glycol tert-octylphenyl ether	9002-93-1	Yes	N/A	None	No	n/a

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
85% Phosphoric acid	7664-38-2	No	N/Ap	No	Yes	No	Yes	Yes	No
2-Butoxyethanol	111-76-2	No	N/Ap	No	Yes	No	Yes	Yes	No
Polyethylene glycol tert-octylphenyl ether	9002-93-1	No	N/Ap	No	No	No	Yes	Yes	No

Canadian Information:  
 Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).  
 WHMIS Classification: Class E – Corrosive Material.

International Information:



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Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
85% Phosphoric acid	7664-38-2	231-633-2	Present	Present	Present	KE-27427	Present	HSR101352
2-Butoxyethanol	111-76-2	203-905-0	Present	Present	Present	Present	Present	HSR006399
Polyethylene glycol tert-octylphenyl ether	9002-93-1	618-344-0	Present	Present	Present	KE-33568	Present	HSR006538

### SECTION 16. OTHER INFORMATION

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EC50: Effective Concentration 50%.  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods Inh: Inhalation  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
N/Ap: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NJ: New Jersey  
NIOSH: National Institute of Occupational Safety and Health  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organization for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TPQ: Threshold Planning Quantity  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

References:

Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).  
OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015  
European Chemicals Agency, Classification Legislation, 2015 Material Safety Data Sheet from manufacturer.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

The information and recommendations contained herein are based on data believed to be correct. However, Dampney makes no warranty expressed or implied regarding the accuracy of these data or results to be obtained from the use thereof. Dampney assumes no responsibility for personal injury or property damage caused by use of the material described herein. It is the responsibility of the purchaser or user to ensure that this material is properly and safely used.

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