

MATERIAL SAFETY DATA SHEET

MSDS# 46770106

Effective Date:1/6/06

Supersedes: 2/3/03

1. PRODUCT & COMPANY IDENTIFICATION:

Product Name: RODECO 4677 ACIDIC BURNISHER

Company Information:

PROGRESS CHEMICAL, INC. 3015 Dormax St. S.W., Grandville, MI 49418

24 Hour Emergency Telephone Call CHEMTREC 800-424-9300

Technical Assistance Phone: 616-534-6103

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMPONENTS

70-80% Water, CAS #7732-18-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

5-10% Citric acid, CAS #77-92-9; TLV/TWA (ACGIH): 10 mg/m3 (respirable); PEL/TWA (OSHA):3mg/m3 (respirable); Oral: Rat LD50 3 g/kg.; Dermal LD50: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

5-10% Sodium Citrate, CAS #68-04-2; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: irritation skin rabbit 500mg/24H; Eye Effects: eye rabbit 750ug/ 24H;

5-10% Amphoteric Surfactant, CAS #61791-25-1; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW:

FORM: Liquid
COLOR: Straw
ODOR: Mild Odor

WARNING STATEMENT:

Warning! Prolonged or repeated contact may be drying and cause irritation to skin. Will cause irritation to eyes if contacted. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS:

Likely routes of exposure: Eye and skin contact.

SYMPTOMS OF OVEREXPOSURE:

Acute: Prolonged or repeated contact may be drying and cause redness or irritation to skin. Will cause irritation to eyes if contacted. Harmful if swallowed.

Chronic: None currently known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None currently known.

OTHER HEALTH EFFECTS:

This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be "probable" or "suspected" carcinogens.

4. FIRST AID MEASURES:

EYE CONTACT: OBJECT IS TO FLUSH MATERIAL OUT OF EYES IMMEDIATELY, THEN SEEK MEDICAL ATTENTION. Immediately flush eyes with large amounts of water for at least 15 minutes, intermittently holding eye lids apart to ensure rinsing of entire surface of eye and lids. Contact Physician Immediately!

SKIN CONTACT: Flush thoroughly with plenty of warm water, promptly removing contaminated clothing and shoes. Launder contaminated clothing before reuse. Decontaminate or destroy contaminated shoes. Consult Physician if irritation develops or persists.

INHALATION: Move from contaminated area to fresh air.

INGESTION: DO NOT INDUCE VOMITING! Give victim a quart of water. If vomiting occurs, give fluids again. Never give anything by mouth to a person who is unconscious or having convulsions. Seek Medical Attention!

5. FIRE FIGHTING MEASURES:

FLASH POINT: n.a. Noncombustible. Aqueous based cleaner.

FLAMMABLE LIMITS IN AIR: n.a.

EXTINGUISHING MEDIA: Use media appropriate of surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Product is acidic. Self contained breathing apparatus and appropriate protective clothing to prevent contact should be worn when fighting fires involving chemicals. Dike area to prevent runoff and contamination of water sources.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Use personal protection recommended in section 8.

May cause slippery footing. Persons involved in clean-up must wear appropriate protective equipment. Keep unauthorized persons out of area. Mop or absorb small spills. If large amount is spilled, Dike and pump liquid into Plastic approved containers or holding tanks. Neutralize residue with Sodium Bicarbonate and flush area with water.

If spilled on the ground, contaminated soil should be removed and placed in proper containers for reclamation or disposal. Do not flush material to public sewer or waterway. Decontaminate all tools and equipment following cleanup.

7. HANDLING AND STORAGE:

HYGIENIC PRACTICES IN HANDLING AND STORAGE:

Educate and train employees in the safe use and handling of this product. Avoid contact with skin, eyes and clothing! Wear appropriate protective clothing to prevent contact with this product. (See section 8). Do not wear contact lenses when handling chemicals as they may increase the severity of injury if product comes in contact with eyes. Never touch eyes or face with hands or gloves that may be contaminated with this product. Clothing, shoes or other protective gear that is contaminated or soaked with this material or its solutions should always be promptly removed and not used until laundered or decontaminated. Do not take internally. Wash thoroughly after handling. Wear appropriate protective clothing. Always have water available for First Aid. Store in properly labeled closed plastic containers in cool dry place. Isolate from incompatible substances. Freeze sensitive. Product may not remain homogeneous after thawing if frozen. Always make sure closures are securely tightened before moving container. For industrial use only. Keep product and its containers out of reach of children. When handling empty containers, all labeled precautions must be observed due to product residues. Do Not reuse containers until they have been professionally cleaned, reconditioned, and old labeling has been removed. Do Not reuse for food or drink.

SPECIAL PRECAUTIONS FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

Remove all traces of product and its residue before working on equipment. Maintenance personnel should wear protective equipment and clothing so as to prevent personal contact and should be informed regarding necessary precautions applicable to this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Personal protective equipment selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Use protective clothing which is chemical resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection should take into account such factors as job task, type of exposure, solution concentration, and durability requirements. Information on the selection of eye, skin, and respiratory protection for use with this material is provided below. Consult your personal protection equipment provider for advice on equipment and clothing that is most suitable for your work environment.

VENTILATION REQUIREMENTS: Well ventilated area is adequate under normal conditions.

RESPIRATORY PROTECTION: None normally required.

PROTECTIVE GLOVES: Chemical resistant gloves made of Nitrile, neoprene, or rubber.

EYE PROTECTION: Close fitting chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT: Rubber apron, as conditions dictate in order to prevent personal contact with this product and its solutions. Eye wash fountain and safety shower should be in immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: Liquid
APPEARANCE: Transparent, Straw
ODOR: Mild
SOLUBILITY/WATER: 100%
pH STRAIGHT: 4.8
pH @ 1%: 5.2
BOILING POINT: >212° F. (100° C)
VAPOR PRESSURE: as water
VAPOR DENSITY: as water
VOLATILES BY WEIGHT: 0%
SPECIFIC GRAVITY: 1.04

10. STABILITY AND REACTIVITY:

STABILITY: Stable.
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY- MATERIALS TO AVOID: Strong oxidizing agents.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION:

See Section 2.Composition/Information on Ingredients for information on individual ingredients.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL TOXICITY: Not determined.
ENVIRONMENTAL FATE: All components of this product are considered biodegradable.

At low concentrations in water when pH is adjusted to neutrality, this product is biodegradable in a biological waste water treatment plant. (See Disposal Instructions:)

13. DISPOSAL CONSIDERATIONS:

DISPOSAL INSTRUCTIONS:
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Processing, use or contamination of this product may change the waste management options. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

DISPOSAL CONSIDERATIONS:

At low concentrations in water, this product is biodegradable in a biological waste water treatment plant. (See Disposal Instructions:)

14. TRANSPORT INFORMATION:

CHEMICAL FAMILY: Organic acid detergent
DOT SHIPPING NAME: Compound cleaning liquid
DOT HAZARD CLASSIFICATION: None
DOT PACKAGING GROUP: None
CHEMICAL FORMULA: n.a. proprietary mixture
DOT HAZARDOUS SUBSTANCE? No
USA RQ: None.
UN NUMBER: None
CAS REGISTRY #: n.a. proprietary mixture

15. REGULATORY INFORMATION:

All product components are listed on the EPA/TSCA Inventory of Chemical Substances. This product is biodegradable.

SARA TITLE III - A) 311/312 Categories: Immediate (Acute) Health
B) 313 - Components listed in Section 313: None.
C) None of this products components are listed in Section 302 and 304.

None of the ingredients of this product are contained on SARA's Extremely Hazardous Substances List Section 301-303.

CERCLA - No components listed.

RCRA: None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations (40 CFR 261.31, 32 and 33).

16. OTHER INFORMATION:

PRODUCT USE: Formulated for industrial use only for use in mass finishing processes for both ferrous and non ferrous metals.

	Health	Fire	Reactivity
Suggested NFPA Rating	1	0	0
Suggested HMIS Rating	1	0	0

Note: Hazard ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this MSDS must be considered.

Reason for Revision: New ANSI Standard.

Legend:

CAS# = Chemical Abstract Registry Number; TLV = Threshold Limit Value; TWA = Time Weight Average; PEL = Permissible Exposure Limit; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupation Safety and Health Administration; LD50 = Lethal Dose 50%; LC50 = Lethal Concentration 50%; n.e. = not established; n.a. = not applicable.

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[END OF MSDS]