

Safety Data Sheet



Protective Products Corp.,
P.O. Box 246
Johnston, IA 50131

Section 1. Chemical Product and Company Identification

Product Name Crud Remover
Product Use Alkaline Cleaner
Catalog Number 03
Date of Issue 5/20/15
Supersedes -

Emergency Telephone Numbers CHEMTREC- 1-800-424-9300

(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

Section 2. Hazards Identification

Emergency Overview

DANGER



Health Hazards

Acute Toxicity Ingestion	Category 4
Acute Toxicity Inhalation	Category 4
Skin Corrosion/Irritation	Category 1
Serious eye damage/ eye irritation	Category 1

Physical Hazards

Corrosive to Metals	Category 1
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Precautionary Statements:

P233	Keep container tightly closed
P235+P402	Keep cool and in a dry place
P260	Do not breathe in dust, mist or vapors
P262	Do not get in eyes, on skin or on clothing
P264	Wash hands thoroughly after handling
P281	Use personal protective equipment as required

Hazard Statements:

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled

Routes of Entry

Dermal, Oral, and Inhalation

Acute Effects:

Eyes	Corrosive and irritating; may cause serious eye damage, including blindness. Severity increase with duration of contact.
Skin	May result in destruction of skin tissue or primary irritant dermatitis.
Inhalation	Mist can damage affected tissue and lead to respiratory illness.
Ingestion	Corrosive to the mucous membranes of the mouth, throat, esophagus, and stomach. Causes burns, nausea and vomiting with gastrointestinal disorder. Can be fatal if swallowed.

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS Number	% by Weight
Sodium Hydroxide	1310-73-2	<4
2-butoxyethanol	111-76-2	<10
Sodium Tripolyphosphate	7758-29-4	<3
Sodium Silicate	1344-09-8	<3

Section 4. First Aid Measures

Eye Contact	Flush immediately with plenty of clean water for 30 minutes, lifting eyelids. Seek immediate medical attention.
Skin Contact	Flush immediately with plenty of clean water. Seek medical attention.
Inhalation	Remove person to fresh air. Begin CPR if breathing has stopped, and seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Seek immediate medical attention.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)
(estimated rating)



Hazardous Combustion Products	N/A
Extinguishing Media	Media applicable to surrounding fire
Unsuitable Extinguishing Media	N/A
Fire Fighting Procedures	Use protective equipment. Use water spray to cool fire-exposed containers.

Section 6. Accidental Release Measures

Spill Clean Up	All spilled material must be contained and kept out of waterways, sewers and drains. The spilled chemical should be absorbed with an inert material. Flush cleaned area thoroughly with water.
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Section 7. Handling and Storage

Handling and Storage	Store in a cool, dry place. Keep container tightly closed when not in use. Wash thoroughly after handling. Do not get solution on hands, skin or eyes. Do not re-use containers for any other purpose. Keep out of the reach of children. Have eyewash accessible to use in handling area.
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Section 8. Exposure Controls/Personal Protection**Exposure Limits**

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
Sodium Hydroxide (1310-73-2)	2mg/m ³	2mg/m ³		2mg/m ³
2-butoxyethanol (111-76-2)	50ppm	5ppm		20ppm

Engineering Controls Use mechanical ventilation to keep below TLV and if build-up of dust or vapors is likely.

**Personal Protective Equipment (PPE)**

Eyes	Chemical splash goggles and face shield
Body	Rubber or neoprene gloves, alkali resistant suit and rubber boots
Respiratory	Use a NIOSH approved respirator if TLV are reached or exceeded

Section 9. Physical and Chemical Properties

Physical State	Liquid	Explosive Limits	N/A
Color	Pale Yellow	Vapor Pressure	N/A
Odor	Mild odor	Vapor Density	N/A
Odor Threshold	N/A	Relative Density	N/A
pH	12.5-13.5	Solubility	Complete
Freezing Point	N/A	Partition Coefficient	N/A
Boiling Point	>212°F	Auto-Ignition Temp.	N/A
Flash Point	Not combustible	Decomposition Temp.	N/A
Evaporation Rate	Less than 1	Viscosity	N/A
Flammability	Non-Flammable	Specific Gravity	1.06-1.08

Section 10. Stability and Reactivity

Stability and Reactivity	Stable
Incompatibility	Strong acids and soft metals such as aluminum
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	None
Conditions to Avoid	Extreme heat

Section 11. Toxicological Information

Routes of Entry	Dermal, Oral and Inhalation
Symptoms	Causes burns
Skin Irritant	Yes
Eye Irritant	Yes
Sensitizers	Not determined
Mutagenicity	No information found
Carcinogenicity	2-butoxyethanol: Group 3 (not classifiable as a human carcinogen)
Reproductive Toxicity	No information found
Target Organs	See section 2

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

Acute Toxicity

Test	Results	Basis
Dermal	2,217mg/kg	ATE determined practically non-toxic
Oral	1,207mg/kg	ATE determined Category 4
Inhalation	No data	

Section 12. Ecological Information

Environmental Effects No ecological information available

Section 13. Disposal Considerations

Waste Information Dispose of in accordance with all Federal, State and Local pollution control regulations.

Section 14. Transportation Information

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label Code
DOT Classification	UN1824	Sodium Hydroxide Solution	8	PGII	CORROSIVE

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information

US Federal Regulations The following substances are listed as a toxic chemical and are subject to report under the SARA act Section 313:

2-butoxyethanol	111-76-2	<10%
Sodium Tripolyphosphate	7758-29-4	<3%

The following substances have CERCLA reportable quantity values (in pounds):

Sodium Hydroxide	1310-73-2	1,000
State Regulations	None	

Section 16. Other Information

Last Revision 5/20/15

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.