

SECTION 1 IDENTIFICATION

Product Trade Name: Combat Detergent
Recommended Use: Universal machine detergent
Restrictions on Use: Industrial and Institutional use only
Manufacturer: Maxim Chemical International Inc.
 1607 Derwent Way, Delta, B.C. Canada V3M 6K8
 (800) 663-9925
Emergency Phone Number/ 24-Hour Number: Canada: Canutec 613-996-6666
 U.S.A.: Chemtrec 800-424-9300

SECTION 2 HAZARD IDENTIFICATION

Physical Hazards: CORROSIVE TO METALS
Health Hazards: SKIN CORROSION/IRRITATION - Category 1
 EYE DAMAGE/IRRITATION - Category 1
 CARCINOGENICITY - Category 2

Label Elements:



Signal word: Danger
Hazard Statement: H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H351 Suspected of causing cancer.

Precautionary Statements:

Prevention: P234 Keep only in original packaging.
 P260 Do not breathe dusts or mists.
 P264 Wash hands or affected area thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
Responses: P390 Absorb spillage to prevent material damage.
 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 [or shower].
 P363 Wash contaminated clothing before reuse.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER/doctor/physician.
 P321 Specific treatment (see supplemental first aid information on this label).
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Storage: P406 Store in a corrosion resistant container with a resistant inner liner.
 P405 Store locked up.
Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Approx. Wt.%	CAS Number
Trisodium nitrilotriacetate	10-30	18662-53-8
Sodium Hydroxide	7-13	1310-73-2

* Trisodium nitrilotriacetate's monohydrate CAS number is 18662-53-8; In most world areas it is regulated as CAS 5064-31-3, the anhydrous form.

SECTION 4 FIRST-AID MEASURES

Inhalation: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if feeling unwell.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

If irritation occurs or persists, get medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol foam, or dry chemical.

Flammability: Not flammable.

Flash Point: Not flammable.

Special Firefighting Procedures: Directing a solid stream of water into a hot burning liquid can cause frothing and spread the fire. Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Unusual Fire / Explosion Hazards: Hydrogen gas may be released upon contact with certain metals.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, metal oxide/oxides, hydrogen cyanide, ammonia.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Protection Precautions: Do not release to the environment or water source.

Steps To Be Taken In Case Material Is Released Or Spilled: Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers. Dispose recovered material in accordance with all local, State or Federal regulations.

SECTION 7 HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30°C (86°F) and above 5°C (41°F).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:
 OSHA (PEL): N/A
 ACGIH TLV: N/A
 Other exposure limit: N/A

Appropriate Engineering Controls: Good general ventilation.

Individual Protection Measures / Personal Protective Equipment:

Gloves: Non-permeable gloves (rubber, nitrile) recommended.

Masks/Goggles: Chemical goggles or safety glasses.

Respirator: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.

Apron: Based on the task being performed and the risks involved.

Boots: Based on the task being performed and the risks involved.

Other Protective Equipment: Eye wash, safety shower and full protective clothing recommended in the immediate work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear red liquid.
Odor:	No added fragrance
Odor threshold:	N/A
pH:	> 13
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	>100 °C
Evaporation Rate (Water=1):	N/A
Flammability:	Not flammable
Upper/Lower flammability or explosive limits:	None.
Vapor pressure:	N/A
Vapor density:	N/A
Relative density/Specific gravity (Water = 1):	1.3 @ 20 °C
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	Not flammable
Decomposition temperature:	N/A
Viscosity:	N/A

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	N/A
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	N/A
Conditions to avoid:	Temperatures above 30°C (86°F) and below 5°C (41°F).
Incompatibility:	Strong oxidizing agents and acids.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, metal oxide/oxides, hydrogen cyanide, ammonia.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Ingestion, skin and eye contact.
Symptoms:	Causes serious eye irritation.
Acute Toxicity Estimates:	Oral >2000 mg/kg, dermal >2000 mg/kg
Carcinogenicity:	IARC 2B. Reasonably anticipated to be a human carcinogen.

SECTION 12 ECOLOGICAL INFORMATION

This material is harmful to aquatic life.

SECTION 13 DISPOSAL CONSIDERATIONS

Recommended Waste Disposal Methods: Reuse if possible. Otherwise dispose recovered material in accordance with all local, State or Federal regulations.

SECTION 14 TRANSPORT INFORMATION

Canadian TDG	
UN Number:	1719
UN Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S., (Sodium Hydroxide)
Transport Hazard Class(es):	8
Packing Group:	II

SECTION 15 REGULATORY INFORMATION

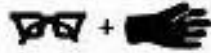
HAZARD RATING INFORMATION

- 4=Extreme
- 3=High
- 2=Moderate
- 1=Slight
- 0=Insignificant

HMIS	
3	Health
0	Flammability
0	Reactivity
B	Personal

A=Gloves, B=Goggles & Gloves
C=Goggles, Gloves and Apron

HMIS Protection
Group B



All pertinent hazard information has been provided in this SDS, per the requirements of the U.S. Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and the Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).

SECTION 16 OTHER INFORMATION

Acronym List:

- ACGIH American Conference of Governmental Industrial Hygienists
- CFR Code of Federal Regulations
- HMIS Hazardous Materials Identification System
- IARC International Agency for Research on Cancer
- MSHA Mine Safety and Health Administration
- N/A Not Available
- NIOSH The National Institute for Occupational Safety and Health
- NTP National Toxicology Program
- OSHA Occupational Safety and Health Administration
- PEL Permissible Exposure Limit
- TDG Transportation of Dangerous Goods
- TLV Threshold Limit Value
- UN United Nations
- WHMIS Workplace Hazardous Materials Information System

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. **Maxim Chemical International Inc.** will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.

PREPARED BY: Technical Service/Regulatory Division

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