



Safety Data Sheet
CONKLIN COMPANY, INC.

Date Prepared: 1/2/2023

SDS Number: 5018

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Rust Off®	General Use Rust and oxide remover
Manufacturer's Name Conklin Company	Emergency Telephone Numbers Health: (888) 786-0974 Transport: (800) 424-9300
Address (Number, Street, City, State and Zip) 551 Valley Park Drive Shakopee, MN 55379	Phone Number for Additional Information (952) 445-6010 Website: www.conklin.com

SECTION 2 - HAZARDS IDENTIFICATION

Signal Word:	Danger
Hazard statements:	Harmful if swallowed or inhaled. Harmful in contact with skin. Causes severe skin burns and serious eye damage. Reacts with bleach to form dangerous chlorine gas.

Precautions: Do not breath mist, vapors or spray.
Do not mix with bleach or other cleaners.
Use in a well ventilated area.
Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Wear gloves, safety glasses or goggles, and long-sleeved clothing when handling concentrate.
Wash hands thoroughly after handling.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice or attention.
If swallowed: Immediately call a physician or Poison Control Center.
Rinse mouth. Do NOT induce vomiting.
Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
If on skin or hair: Immediately take off all contaminated clothing. wash skin with soap and water.
Wash contaminated clothing before reuse.
If skin irritation occurs: Get medical advice or attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Do NOT allow victim to move about unnecessarily. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Quickly transport victim to an emergency care facility.

Potential Health Effects, Based on Individual Components (May Vary Among Individuals)

Eye: Corrosive (acid). Liquid, fumes, mists, or vapors may cause severe eye injury and burns, and may result in permanent eye damage or blindness.

Skin: Corrosive (acid). May cause severe irritation, burns and tissue destruction.

Ingestion: Corrosive (acid). May cause severe irritation and burns to mouth, throat, and stomach, along with nausea, vomiting, abdominal pain, shock, or collapse. Injury may be severe and may result in death.

Inhalation: Corrosive (acid). May cause severe irritation and burns, with sore throat, coughing, shortness of breath, and impaired pulmonary function.

Causes damage to Blood, Bone Marrow, Eyes, Liver, Lungs, Mucous Membrane, Respiratory System, and Skin through prolonged or repeated exposure.

Medical conditions aggravated by exposure:

None known

Chronic effect Not known to contain component(s) at 0.1% or greater listed as a carcinogen or possible carcinogen.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percent by Weight
Phosphoric acid	7664-38-2	30% to 40%
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	1% to 5%

See Section 8 for exposure guidelines.

SECTION 4 - FIRST AID MEASURES

EYES: Immediately flush the contaminated eye(s) with clean, lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens until after flushing is complete. Neutral saline solution may be used as soon as it is available. DO NOT interrupt flushing. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.

SKIN: As quickly as possible, remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Immediately flush with lukewarm, gently flowing water for at least 30 minutes. DO NOT interrupt flushing. If necessary, and it can be done safely, continue flushing during transport to emergency care facility. Immediately obtain medical attention. Completely decontaminate clothing, shoes, and leather goods before reuse, or discard.

INGESTION: Never give anything by mouth to a victim who is rapidly losing consciousness, is unconscious, or is convulsing. Have victim rinse mouth thoroughly with water. Do NOT induce vomiting. Have victim drink a glass of water (2 to 8 ounces or 60 to 240 mL). If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

INHALATION: Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen. Do NOT allow victim to move about unnecessarily. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Quickly transport victim to an emergency care facility.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: > 200°F

EXINGUISHING MEDIA: Water fog or spray, dry chemical, foam, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Use water, dry chemical, CO₂, or foam, as appropriate for surrounding fire. Use water spray to cool containers. Firefighters should use approved self-contained breathing apparatus and full turn-out (Bunker) gear when fighting fires involving chemicals, to protect against possible toxic fumes or vapors. Cool and use caution when approaching fire-exposed containers. Organic material suspended in water. Organic material may burn if all of the water has boiled off.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURE: Use personal protection recommended in Section 8. Ventilate area thoroughly. Stay upwind. Isolate area from unprotected personnel. Dike to prevent spill from spreading. Collect with compatible absorbent material and place in metal container with tight fitting cover. Floor may be slippery - use care and clean thoroughly. Keep out of sewer, septic system, ground water, and open waters. Notify federal, state and local authorities, as applicable.

SECTION 7 - HANDLING AND STORAGE

STORAGE TEMPERATURE: Store above 40°F and below 100°F.

HANDLING AND STORAGE PRECAUTIONS: Use personal protection recommended in Section 8. Open containers slowly in case of pressure accumulation. Protect from direct sunlight. Store in dry, cool, ventilated area in tightly closed containers out of the reach of children. Do not store on side. Avoid creasing or impacting container sidewalls. Add acids or caustics slowly to water, not water to acids or caustics. Not to be used in atomizers or power spray equipment. Empty containers may be hazardous. Do not eat, drink, or smoke in chemical use or storage areas. Wash hands after handling and before eating, drinking, or smoking. Do not rub eyes with soiled hands. See Section 10 for metals or other materials to avoid.

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

ENGINEERING CONTROLS: Provide sufficient general and local exhaust ventilation to maintain safe exposure levels. Take measures to minimize exposure. Provide a source of clean water for flushing eyes and skin.

EYE PROTECTION REQUIREMENTS: Use ANSI-approved eye protection (e.g. safety glasses, goggles), as required by work conditions. Use ANSI-approved chemical splash goggles and face shield if splashing may occur.

SKIN PROTECTION REQUIREMENTS: Chemical-resistant gloves and clothing, as needed, to prevent skin contact. Wash hands before eating, drinking, or smoking.

RESPIRATORY PROTECTION: To protect against inhalation, a NIOSH-approved air-purifying respirator with acid vapor cartridges may be permissible. Use a positive pressure air-supplied respirator for unknown or uncontrolled situations, or when air-purifying respirators may not provide adequate protection.

AIRBORNE EXPOSURE LIMITS

Components	OSHA PEL/TWA	ACGIH TLV/TWA	STEL
Phosphoric acid	TWA 1 mg/m ³		

Definitions:

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

TWA = Time-weighted average (8 hour day)

STEL = Short term exposure limit (15 minutes), no more than 60 min./day

(c) = Ceiling (not to be exceeded under any condition)

(s) = Skin

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Viscous liquid	Solubility in Water:	Complete
Color:	Purple	Specific Gravity (Water = 1):	1.18 - 1.21
Odor:	Acrid	Evaporation Rate (Butyl Acetate = 1):	< 1
Boiling Range:	> 212°F	Vapor Pressure (mm Hg):	Not determined
pH:	< 1.5	Vapor Density (Air = 1):	> 1
VOC:	0% by weight		

SECTION 10 – REACTIVITY

Stability:	This material is stable; however, it reacts violently with caustics/alkalis. Avoid contact with moisture during storage.
Hazardous Polymerization:	Will not occur.
Incompatibilities (Materials to Avoid):	Basic/caustic/alkaline and organic materials, common metals, oxidizing substances. Reacts with bleach to form dangerous chlorine gas. Don't use aluminum equipment for storage or transfer. The Soap & Detergent Association recommends never mixing different cleaning products.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, toxic phosphorus oxide fumes and acid mist. Contact with common reactive metals (e.g. mild steel and aluminum) may release flammable/explosive hydrogen gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product not tested as a whole. Refer to Section 3 for potential health effects.

SECTION 12 – ECOLOGICAL INFORMATION

Product not tested as a whole. Refer to Section 6 for information regarding accidental releases. Keep out of trash, water, sewer, and drainage systems.

SECTION 13 - DISPOSAL CONSIDERATIONS

This material is considered a hazardous waste according to EPA criteria for corrosivity. Empty containers may be hazardous. Recycle or dispose of contents and empty containers according to federal, state and local regulations. Keep out of trash, water, sewer, and drainage systems, except when used as intended.

SECTION 14 - TRANSPORTATION INFORMATION

UN1760, Corrosive liquids, n.o.s. (Phosphoric acid), 8, II
Exceptions: Limited Quantity, (not more than 1 liter)

Not packaged for Air or Vessel Transport

For additional information, please call the Transportation Department at (952) 445-6010.

SECTION 15 - REGULATORY INFORMATION

California Proposition 65 statement: This product does NOT contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Does not contain any chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372) above de minimis concentrations.
CERCLA RQ = 5000 lbs (Phosphoric acid).

SECTION 16 - OTHER INFORMATION

This document replaces the 7/6/2022 version. All Safety Data Sheets reviewed for composition and regulatory status.

The information contained in this Safety Data Sheet is based on data available to us from suppliers, and is believed to be true and correct; however, Conklin makes no warranty, express or implied, regarding the accuracy of this data or results obtained from the use of this product. Conklin and its employees assume no responsibility for injury or damage from the use of this product.