SAFETY DATA SHEET

For Chemical Emergency Spill, Leak, Fire Exposure or Accident
Call INFOTRAC Day or Night
North America: 800-535-5053

Section 1– Product And Company Information

Supplier's Name: ArmChem International, Inc
Supplier's Address: 3563 NW 53 rd Court, Ft. Lauderdale FL, 33309, Phone 954-735-0029
Product Name: Oxx-Off
Product Number: RE-150

DOT Proper Shipping/ Hazard Name (49 CFR 172.101): Hydrochloric Acid solution
DOT ID # (49 CFR 172.101): UN 1789
DOT Hazard Class (49 CFR 172.101): Class 8, PGIII

FLAMMABILITY (Red): NFPA: 0 **HMIS**: 0
HEALTH (Blue): NFPA: 2 **HMIS**: 2
REACTIVITY (Yellow): NFPA: 0 **HMIS:**1
Personal Protection (HMIS)= C

Section 2 – Health Hazard Identification

Primary Route of Exposure: Skin, eyes, ingestion and inhalation.

Effects of Acute Overexposure:
Skin: Contact can cause severe irritation, burns, defatting of skin. Also causes ulcers of the skin.
Eyes: Can cause severe irritation, redness, tearing, blurred vision or permanent loss of vision.
Breathing: Excessive inhalation of vapors can cause nasal and respiratory irritation as well as burns and pulmonary damage.
Swallowing: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea and burning of the digestive ways.

Effects of Chronic Overexposure: None known.

Section 3– Components

Component	CAS#	%	ACGIH(TLV-TWA)	OSHA (TWA)
Hydrochloric Acid	7647-01-0	—	2 ppm (CEILING)	5 ppm (PEL)
Nonyl Phenol Ethoxylated (Nonoxynol-9)	127087-87-0	—	NE	NE

Section 4 - First Aid Measures

If On Skin: Thoroughly wash exposed area with soap and water remove contaminated clothing. Launder before reuse. If necessary, neutralize with bicarbonate of soda or baking soda and, if irritation persists, see a doctor.
If In Eyes: Flush with large amounts of water, lifting upper and lower lids occasionally. Neutralize with baking soda. Seek medical attention immediately.
If Breathed: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. Keep person warm and quiet. Get medical attention.
If Swallowed: Do not induce vomiting. Drink baking soda solution or milk. Keep person warm, quiet and seek immediate medical attention.

Section 5 – Fire Fighting Measures

Flash Point: None
Flammable Limits in Air: **Upper:** ND **Lower**: ND
Extinguishing Media: Regular foam, carbon dioxide, dry chemical, for surrounding fire.
Hazardous Decomposition Products: May form oxides of sulfur and other unidentified noxious fumes.
Firefighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
Special Fire and Explosion Hazards: May cause explosion when in contact with aluminum-titanium alloys, 2-amino ethanol, ammonium hydroxide, acetic anhydride, calcium carbide.

Section 6 - Accidental Release Measures

Personal Precautions:
For personal protection see section 8. Persons not wearing protective equipment should be excluded from the area of the spill until cleanup has been completed.

Environmental Precautions:
Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs notify authorities as required.

Methods for Cleaning Up Spills:
Small Spill: Dilute with water, absorb onto mop or other material such as soda ash. Dispose as directed by local regulatory norms. Can be neutralized with weak alkalis.
Large Spill: Stop spill at source. Isolate and dike with soaking materials. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product and dispose according to local laws.

Section 7 – Storage & Handling

KEEP OUT OF REACH OF CHILDREN
For industrial and institutional use only. Store in a cool, dry area away from heat or open flame. Do not store at temperatures in excess of 120ºF for prolonged periods.
Always store in original container. Follow all label instructions and precautions.

Section 8 - Exposure Control / Personal Protection

Respiratory Protection: If workplace exposure limits product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure types) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.
Ventilation: Provide sufficient mechanical ventilation to maintain exposure below TLV.
Protective Gloves: Rubber, neoprene or other resistant elastomer.
Eye Protection: Chemical splash resistant goggles
Other Protective Clothing & Equipment: Rubber aprons and boots when working with large quantities.

Section 9-Physical And Chemical Properties

Boiling Point: 212 ºF
Vapor Pressure: ND
Solubility in Water: Soluble
% Volatile: 90%
Specific Gravity (H^2O =1): 1.10 gr/cc
Vapor Density: (Air=1): ND
Appearance: Clear liquid with acid odor
pH = ND (Very Acidic)

Section 10 – Stability And Reactivity Information

Stability: Stable
Incompatibility (Materials to Avoid): Strong oxidizers and alkaline products.
Hazardous Polymerization: Will not occur
Conditions To Avoid: Direct Heat

Section 11 - Toxicological Information

Oral Toxicity (LD50): Hydrochloric Acid 900mg/kg [Rabbit] Nonoxynol-9: 1410 mg/kg [Rat] **HCl Lethal Dose (Oral):** 2857 ug/kg [Human]
Inhalation Toxicity (LC50): Hydrochloric Acid 1108 ppm/1Hr [Mouse]**HCl Lethal Dose (Inhalation):** 1300 ppm/30M [Human]
Dermal Toxicity (LD50): Nonoxynol-9: 2830mg/kg [Rabbit]
Irritancy of Product: This product is irritating to the skin, eyes, respiratory, and digestive tract. Prolonged exposure will caused severe medical complications or even death.

Section 12 - Ecological Information

Toxicity: Nonyl Phenol Ethoxylated: Water hazard class 1 (German regulation) (LC50) 21.4 mg/L 48Hr [Daphnia]
Persistence and Degradability: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Bio-accumulative Potential: No Data
Other Adverse Effects: The products of degradation are less toxic than the product itself.

Section 13 - Disposal Considerations

Waste Disposal Method:
Disposal should be made in accordance with federal, state, and local regulations.

Section 14 - Transport Information

DOT Proper Shipping/ Hazard Name (49 CFR 172.101): Hydrochloric Acid solution
DOT ID # (49 CFR 172.101): UN 1789
DOT Hazard Class (49 CFR 172.101): Class 8, PG III

Marine Pollutant: No data
International Air Transport Association Shipping Information (IATA): UN1789, Hydrochloric Acid, Class 8, PGIII
International Maritime Organization Shipping Information (IMO):UN1789, Hydrochloric Acid, Class 8, PGIII

Section 15 - Regulatory Information

Federal and State Regulations: Connecticut hazardous material survey.: Hydrochloric acid Illinois toxic substances disclosure to employee act: Hydrochloric acid Illinois chemical safety act: Hydrochloric acid New York release reporting list: Hydrochloric acid Rhode Island RTK hazardous substances: Hydrochloric acid Pennsylvania RTK: Hydrochloric acid Minnesota: Hydrochloric acid Massachusetts RTK: Hydrochloric acid Massachusetts spill list: Hydrochloric acid New Jersey: Hydrochloric acid New Jersey spill list: Hydrochloric acid Louisiana RTK reporting list: Hydrochloric acid Louisiana spill reporting: Hydrochloric acid California Director's List of Hazardous Substances: Hydrochloric acid TSCA 8(b) inventory: Hydrochloric acid TSCA 4(a) proposed test rules: Hydrochloric acid SARA 302/304/311/312 extremely hazardous substances: Hydrochloric acid SARA 313 toxic chemical notification and release reporting: Hydrochloric acid
TSCA 8(b) inventory: Nonoxynol-9 (p-Nonylphenyl, ethoxylated TSCA 8(a) PAIR: Nonoxynol-9 (p-Nonylphenyl, ethoxylated
CERCLA: Hazardous substances.: Hydrochloric acid: 5000 lbs. (2268 kg)
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
FLAMMABILITY (Red): NFPA: 0 **HMIS**: 0
HEALTH (Blue): NFPA: 2 **HMIS**: 2
REACTIVITY (Yellow): NFPA: 0 **HMIS:**1
Personal Protection (HMIS)= C

Section 16 – Special Precautions Or Other Comments

Wash hands with soap and water after use. Avoid contact with open wounds. Although information contained herein is believed to be correct as of the date of this document, We makes no representation as to the completeness or accuracy of such information. We shall in no event be responsible for any damages directly or indirectly from use of or reliance on this information. This information is provided solely to assist the customer with the Occupational Safety and Health Act of 1970 and The Right to Know regulations. Any other use is prohibited.

Legend:

NE: Not Evaluated
ND: Not Determined
NA: Not Available
NAP: Not Applicable
NR: Not Regulated