

ISSUE DATE: January 2014

REVISION DATE: May 2015

VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME NUTROL

OTHER MEANS OF IDENTIFICATION

SDS Number E-041

UN/ID No UN1760

Recommended Uses Laundry Sour

SDS-SUPPLIER INFORMATION

SUPPLIER ADDRESS E-ZOIL Products, Inc.
DBA Emulso
2750 Kenmore Avenue
Tonawanda, NY 14150

EMERGENCY TELEPHONE NUMBER

COMPANY PHONE NUMBER (716) 854-2889

COMPANY FAX NUMBER (716) 854-2809

24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)

NORTH AMERICA 1-800-535-5053

INTERNATIONAL 352-323-3500

2. HAZARDS IDENTIFICATION

CLASSIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation Category 1 Sub-Category B
Serious eye damage/eye irritation Category 1

SIGNAL WORD Danger

HAZARD STATEMENTS



HAZARD STATEMENTS Causes severe skin burns and eye damage.

APPEARANCE Transparent

PHYSICAL STATE Liquid

ODOR Slight Acidic

PRECAUTIONARY STATEMENTS

PREVENTION Do not breathe dust/fume/gas/mist/vapors/spray.
Wash face, hands and any exposed skin thoroughly after handling.



Safety Data Sheet

Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE	Immediately call a poison center or doctor/physician.
IF SWALLOWED	Rinse mouth. Do NOT induce vomiting.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN/HAIR	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
STORAGE	Store locked up.
DISPOSAL	Dispose of contents/container to an approved waste disposal plant.
HAZARDS NOT OTHERWISE CLASSIFIED	May be harmful if swallowed. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

CHEMICAL NAME	CAS NUMBER	WEIGHT - %	TRADE SECRET
Phosphoric acid	7664-38-2	20%-30%	*

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	Show this safety data sheet to the doctor in attendance.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. GET IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT	Wash off immediately with plenty of water for at least 15 minutes.
INHALATION	If victim shows signs of discomfort or irritation, remove to fresh air. If symptoms persist, get immediate medical attention.
INGESTION	DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious person. Get medical attention immediately.

PROTECTION OF FIRST-AIDERS Do not use mouth-to-mouth method if victim ingested or 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.

POTENTIAL ACUTE HEALTH EFFECTS

Most important symptoms and effects, both acute and delayed

SYMPTOMS The most important known symptoms and effects are described in the labelling in section 2 and/or in section 11.

NOTES TO PHYSICIAN Treat symptomatically.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA CAUTION: Use of water spray when fighting fire may be inefficient.

SPECIFIC HAZARDS ARISING FROM CHEMICAL No information available.

HAZARDOUS COMBUSTION PRODUCTS Phosphorus oxides.

EXPLOSION DATA

SENSITIVITY TO MECHANICAL IMPACT None.

SENSITIVITY TO STATIC DISCHARGE None.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/ NIOSH (approved and equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

PERSONAL PRECAUTIONS Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

OTHER INFORMATION Common Weak Bases suitable for neutralizing corrosive acids: calcium hydroxide / lime, baking soda / sodium bicarbonate, soda ash / washing soda / sodium carbonate, medical antacids, and powdered limestone / calcium carbonate.

ENVIRONMENTAL PRECAUTIONS

ENVIRONMENTAL PRECAUTIONS Keep out of waterways. Neutralization is normally necessary before waste water is discharged into water treatment plants. See Section 12 for additional Ecological Information.



Safety Data Sheet

METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

CONTAMINATION Contain spill. Neutralize with weak base solution.
CLEAN-UP Flush any neutralized residue with large quantity of water.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product.

CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

STORAGE CONDITIONS Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Store away from incompatible materials.

INCOMPATIBLE MATERIALS Strong bases. Common Metals. Cyanides. Chlorine Bleach. Sulfides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	STEL: 3 mg/m ³ TWA: 1 mg/m ³ test	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health.

ENGINEERING CONTROLS Ensure that eyewash stations and safety showers or an equivalent method of decontamination are close to the work location. Ensure adequate ventilation, especially in confined areas.

INDIVIDUAL PROTECTION MEASURES

EYE/FACE PROTECTION Splash-proof chemical goggles or face shield.

SKIN/BODY PROTECTION Acid proof gloves, impervious rubber boots & apron.

RESPIRATORY PROTECTION If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

GENERAL HYGIENE Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid



Safety Data Sheet

APPERANCE	Transparent	
COLOR	Clear	
ODOR	Slight Acidic	
ODOR THRESHOLD	No information available	
	pH	1.2
MELTING POINT/FREEZING POINT	No information available	
BOILING POINT/BOILING RANGE	> 100 °C / 212 °F	Estimated
FLASH POINT	No information available	
EVAPORATION RATE	Miscible	
FLAMMABILITY (SOLID, GAS)	No information available	
UPPER FLAMMABILITY LIMITS	No information available	
LOWER FLAMMABILITY LIMITS	No information available	
VAPOR PRESSURE	No information available	
VAPOR DENSITY	No information available	
SPECIFIC GRAVITY	1.174 ± 0.005	
WATER SOLUBILITY	Completely soluble	
SOLUBILITY IN OTHER SOLVENTS	No information available	
PARTITION COEFFICIENT: N-OCTANOL/WATER	No information available	
AUTO-IGNITION TEMPERATURE	No information available	
DECOMPOSITION TEMPERATURE	No information available	
KINEMATIC VISCOSITY	No information available	
DYNAMIC VISCOSITY	No information available	
EXPLOSIVE PROPERTIES	Not explosive	
OXIDIZING PROPERTIES	No information available	

OTHER INFORMATION

SOFTENING POINT	N/A
MOLECULAR WEIGHT	N/A
VOC CONTENT (%)	None
DENSITY VALUE	N/A
BULK DENSITY VALUE	N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	Reacts with chlorine-containing products such as bleach to produce toxic gas.
CONDITIONS TO AVOID	Extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS	Strong bases. Common Metals . Cyanides. Chlorine Bleach .Sulfides.
HAZARDOUS DECOMPOSITION PRODUCTS	Phosphorus oxide fumes under fire conditions. Contact with common metals produces Hydrogen Gas.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure.

PRODUCT INFORMATION	Causes severe skin burns and eye damage.
EYE CONTACT	Corrosive to the eyes and may cause severe damage including blindness.
SKIN CONTACT	Contact causes severe skin irritation and possible burns.
INHALATION	Severe respiratory irritant.
INGESTION	Corrosive - causes severe burns to gastrointestinal tract.



Safety Data Sheet

COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m3 (Rat) 1 h

INFORMATION ON TOXICOLOGICAL EFFECTS

SYMPTOMS No information available.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

SENSITIZATION	No information available.
MUTAGENIC EFFECTS	No information available.
CARCINOGENICITY	There are no know carcinogenic chemicals in this product.
REPRODUCTIVE TOXICITY	No information available.
STOT – SINGLE EXPOSURE	No information available.
STOT – REPEATED EXPOSURE	No information available.
CHRONIC TOXICITY	No information available.
ASPIRATION HAZARD	No information available.

NUMERICAL MEASURES OF TOXICITY – PRODUCT INFORMATION

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	4352 mg/kg
ATEmix (dermal)	8541 mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY 0.0006% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

CHEMICAL NAME	ALGAE/		
	AQUATIC PLANTS	FISH	CRUSTACEA
Phosphoric acid 7664-38-2	-	3 - 3.5: 96 h Gambusia affinis mg/L LC50	4.6: 12 h Daphnia magna mg/L EC50

PERSISTENCE AND DEGRADABILITY No information available.
BIOACCUMULATION No information available.

Chemical Name	Partition Coefficient
Oxalic acid 144-62-7	-0.81

OTHER ADVERSE EFFECTS No information available.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

WASTE DISPOSAL	Disposal should be in accordance with applicable regional, national and local laws and regulations.
CONTAMINATED PACKAGING	Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.



Safety Data Sheet

CHEMICAL NAME	CALIFORNIA HAZARDOUS WASTE STATUS
Phosphoric acid 7664-38-2	Corrosive

14. TRANSPORT INFORMATION

DOT - REGULATED	
UN/ID NO	UN1760
PROPER SHIPPING NAME	Corrosive Liquid, n.o.s. (contains Phosphoric Acid solution)
HAZARD CLASS	8
PACKAGING GROUP	III
EMERGENCY RESPONSE GUIDE NUMBER	154

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

LEGEND

TSCA	All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.
DSL/NDL	Canadian Domestic Substances List/Non-Domestic Substances List .
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AICS	Australian Inventory of Chemical Substances.

U.S. FEDERAL REGULATIONS

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Phosphoric acid 7664-38-2	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313



Safety Data Sheet

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

CLEAN WATER ACT (CWA)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb	-	-	X

U.S. STATE REGULATIONS

CALIFORNIA PROPOSITION 65

This product does not contain any Proposition 65 chemicals.

U.S. STATE RIGHT-TO-KNOW REGULATIONS

This product contains substances regulated by state right-to-know regulations.

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Phosphoric acid 7664-38-2	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	PHYSICAL AND CHEMICAL HAZARDS
	3	0	0	COR
HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	3	0	0	X

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET