



SAFETY DATA SHEET

Clean Sour

Revision Date 12/20/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Clean Sour **ITEM** 001305
001315

PRODUCT USE Laundry Neutralizer

COMPANY NAME Magnus **Office** (855) 962-4687
 3680 W Royal Lane, Suite# 155A **Fax**
 Irving, TX 75063 **Web** www.magnusdist.com

EMERGENCY TELEPHONE NUMBER **CHEMTREC (800) 424-9300**

SECTION – 2 HAZARDS INFORMATION

Physical Hazards CORROSIVE TO METALS-Category 1
Health Hazards EYES-Category 1; SKIN-Category 1C



Danger May be corrosive to metals
 Causes severe skin burns and eye damage
 May be harmful if swallowed, Do not get in eyes, on skin, or clothing, and avoid inhalation of mist, Do not smoke, eat or drink while using, Use proper Safety Equipment, safety glasses, or goggles, rubber gloves, and protective clothing, Wash thoroughly after handling, Avoid release into the environment

SECTION – 3 COMPOSITION INFORMATION (Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Phosphoric Acid	Monophosphoric Acid, Orthophosphoric Acid	7664-38-2		5 - 15%
Citric Acid		77-92-9		1 - 5%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room

SKIN CONTACT Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Remove contaminated shoes or clothing and wash before reuse, If irritation occurs or persists obtain medical attention

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard Not applicable

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, redness, burning sensation, pain, corrosive burns, or possible eye damage

Skin Causes serious skin irritation, itching, redness, burning, or possible corrosive burns

Inhalation Spray mist may cause mild irritation, to respiratory tract

Ingestion May be harmful if swallowed, May cause corrosive burns, of the mouth, throat, esophagus, and gastrointestinal tract

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, severe pain, severe corrosive burns, corneal injury, lesions, partial or complete blindness

Skin Causes serious skin damage, inflammation, burning, deep ulcerations, or corrosive burns

Inhalation Spray mist may cause irritation, to mucus membranes or respiratory tract

Ingestion May be harmful if swallowed, Causes corrosive burns, of the mouth, throat, esophagus, stomach, and gastrointestinal tract, Symptoms may include, nausea, vomiting, abdominal pain

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Hazardous Decomposition Burning or thermal decomposition can produce, phosphorus oxides, carbon monoxide, carbon dioxide, and other toxic fumes

Reactive With Reactive with, strong oxidizing agents, strong reducing agents, strong bases, alkaline earth metals, nitrates

Explosion Hazards Not applicable

Static Discharge Not applicable

Mechanical Impact Not applicable

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill, Stop spill or release only if it can be done safely
Personal Precautions	Avoid slipping on spilled product, Keep unprotected personnel from entering the hazard area
Protective Equipment	Safety Glasses, Gloves, Chemical Apron and Rubber Boots
Containment	Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the environment
Clean Up Procedures	Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Keep away from incompatible materials, Use appropriate safety equipment, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment, Triple rinse container before discarding
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store in a cool dry place away from incompatible materials, Keep from freezing
Incompatible Materials	Incompatible with, strong oxidizing agents, strong reducing agents, strong bases, alkaline earth metals, nitrates

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Phosphoric Acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	3 mg/m ³	ED,SD,RT
Citric Acid	None Established				

PERSONAL PROTECTIVE EQUIPMENTChemical Safety Glasses,
Goggles or Face ShieldImpervious
Chemical GlovesImpervious
Protective ClothingEye Wash
(Recommended)**Ventilation**

General Ventilation

HMIS HAZARD RATINGS

Health	3
Flammability	0
Reactivity	1
Personal Protection	C

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	1.087
Flammable Limits	ND	pH (± 0.3)	1.0
Auto-Ignition Temp.	ND	Viscosity	ND
Physical State	Liquid	Freeze Point	~ 0°C (32°F)
Appearance	Clear	Boiling Point	~ 100°C (212°F)
Odor	Mild	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mm Hg)	ND
Solubility	100%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 87%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 34.3
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable when stored above 4.4°C (40°F) and below 49°C (120°F)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong reducing agents, strong bases, alkaline earth metals, nitrates
Thermal Decomposition	Burning or thermal decomposition can produce, phosphorus oxides, carbon monoxide, carbon dioxide, and other toxic fumes

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, redness, burning sensation, pain, corrosive burns, or possible eye damage
Skin Causes serious skin irritation, itching, redness, burning, or possible corrosive burns
Inhalation Spray mist may cause mild irritation, to respiratory tract
Ingestion May be harmful if swallowed, May cause corrosive burns, of the mouth, throat, esophagus, and gastrointestinal tract

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, severe pain, severe corrosive burns, corneal injury, lesions, partial or complete blindness
Skin Causes serious skin damage, inflammation, burning, deep ulcerations, or corrosive burns
Inhalation Spray mist may cause irritation, to mucus membranes or respiratory tract
Ingestion May be harmful if swallowed, Causes corrosive burns, of the mouth, throat, esophagus, stomach, and gastrointestinal tract, Symptoms may include, nausea, vomiting, abdominal pain

Acute Tox Calculated **Oral:** 10,826 mg/kg **Dermal:** 15.176 mg/kg **Inhaled:** > 50.0 mg/L

Acute Tox Category Not applicable (Oral >5000 mg/kg), Not applicable (Dermal > 5000 mg/kg), Not applicable (Inhaled >12.5 mg/L) Dust or Mist

Additional Info

Target Organs Mucous Membranes, Eyes (Lens or cornea), Skin
Medical Conditions Preexisting, eye, skin, respiratory, disorders may be aggravated by exposure to this product
Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	<u>GHS Category</u>
None Listed	NA	NA	NA	NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Phosphoric Acid	LD50	Oral	Rat	1,530 mg/kg		4 (>300, ≤2000 mg/kg)
	LC50	Inhaled		No data listed		
	LD50	Dermal	Rabbit	2,740 mg/kg		
Citric Acid	LD50	Oral	Rat	5,400 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rat	>2,000 mg/kg		(>2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Phosphoric Acid	LC50	Mosquito Fish	(Gambusia affinis)	138 mg/L	96 Hours	3 (>10, ≤100 mg/L)
Citric Acid	LD50	Bluegill	(Lepomis macrochirus)	220 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Water Flea	(Daphnia magna)	767.5 mg/L	48 Hours	4 (>100 mg/L)

Persistence And Degradability Phosphates may persist in the environment
Bioaccumulative Potential No data available
Mobility In Soil This material is a partially mobile liquid
Other Adverse Effects May be harmful to aquatic organisms due to pH shift

SECTION – 13 DISPOSAL CONSIDERATIONS**DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER**


Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

CONTAINER DISPOSAL - Triple rinse empty container then offer for recycling. If not available, puncture and dispose in a sanitary landfill.

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION**

UN Number	Proper Shipping Name	n.o.s. (Chemicals) or "Limits"	Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response	Marine Pollutant	Hazard Label	Secondary
UN 1760	CORROSIVE LIQUIDS, n.o.s. (Phosphoric Acid, Citric Acid)		8	III	Corrosive Liquid	Phosphoric Acid (5000)	154	No		
Additional Info:										

SECTION – 15 REGULATORY INFORMATION

TSCA														
CHEMICAL NAME	Sec 8(b) Inventory			Sec 8(d) Health And Safety			Sec 4(a) Chemical Test Rules			Sec 12(b) Export Notification				
Phosphoric Acid	Yes			Yes										
REPORTABLE QUANTITIES														
CHEMICAL NAME	Extremely Hazardous			Reportable Quantity			Emission Reporting							
Phosphoric Acid	EPCRA TPQ Sec 302			EPCRA RQ Sec 304			CERCLA RQ Sec 103			TRI Sec 313			RCRA Code	RMP TQ Sec 112r
Phosphoric Acid				5000										
SARA														
CHEMICAL NAME	Section 311			Section 311 / 312 Hazards										
Phosphoric Acid	Hazardous Chemical			Acute		Chronic		Flammable		Pressure		Reactive		
Citric Acid	Yes			Yes		Yes								
RIGHT TO KNOW														
CHEMICAL NAME	STATE													
Phosphoric Acid	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI	
Citric Acid	Yes			Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes		
CALIFORNIA														
CHEMICAL NAME	CAS #	WARNING! This product contains chemicals known to the state of California to cause:												
None Listed		Birth Defects		Reproductive Harm			Carcinogen			Developmental				
CLEAN AIR WATER ACTS														
CHEMICAL NAME	CAS #	Clean Air Acts				Clean Water Acts								
None Listed		HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP							
INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:														
CHEMICAL NAME	Australia	Canada	Europe (EINECS)			Japan	Korea	UK						
Phosphoric Acid	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
WHMIS Classification														
CHEMICAL NAME	DSL	Class	Description											
Phosphoric Acid	Yes	E	Corrosive Material											

SECTION – 16 OTHER INFORMATION**SDS LEGEND DESCRIPTION**

ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NFPA	National Fire Protection Association
EPA	Environmental Protection Agency	NIOSH	National Institute for Occupational Safety and Health
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NE	Not Established
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous air pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety Glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours)
KD	Kidney Damage (nephropathy)	UEL	Upper Explosive Limit

Magnus

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Print Date 12/30/2015

Supersedes Safety Data Sheet Dated