

SANCO INDUSTRIES, INC. P.O. Box 11617, Fort Wayne, IN 46859 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/21/2016 Version: 2.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Rust Kutter
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
Use of the substance/mixture	: Rust Converter
1.3. Details of the supplier of the safety	/ data sheet
Sanco Industries, Inc. 1819 S. Calhoun Street Fort Wayne, IN 46802 Phone: 260-426-6281 Toll Free: 888-697-2626	
1.4. Emergency telephone number	
Emergency number	: 24 Hour Contact - CHEMTREC 1-800-424-9300
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or I	nixture
Classification (GHS-US)	
Acute toxicity (oral) Category 4 H302	
Skin corrosion/irritation Category 1A H314	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS05 GHS07
Signal word (GHS-US)	: Danger
Contains	: 2-Butoxyethanol; Phosphoric acid
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	 P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash hands and other exposed areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear personal protective equipment P301 + P312 - If swallowed: Call a poison center or doctor/physician if you feel unwell 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/shower P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
None of the ingredients are of unknown toxicity	
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SECTION 3: Composition/information	on on ingredients

Substance 3.1.

Not applicable - product is a mixture

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3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
Phosphoric acid	(CAS No) 7664-38-2	35 - 45	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
2-Butoxyethanol	(CAS No) 111-76-2	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311
Citric acid	(CAS No) 77-92-9	1 - 5	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the product label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
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5.2. Special hazards arising from the sul	
Reactivity	: Thermal decomposition generates : Corrosive vapors.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Contain all water used for fire-fighting to the greatest extent possible.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	sures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
errer i er hen ennergeney personner	
Emergency procedures	: Evacuate unnecessary personnel.
Emergency procedures 6.1.2. For emergency responders	: Evacuate unnecessary personnel.
	: Equip cleanup crew with proper protection.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.
6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions	: Equip cleanup crew with proper protection.
6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions	 Equip cleanup crew with proper protection. Ventilate area. v authorities if liquid enters sewers or public waters.
 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Prevent entry to sewers and public waters. Notify 	 Equip cleanup crew with proper protection. Ventilate area. v authorities if liquid enters sewers or public waters.

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Avoid contact during pregnancy/while nursing.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling.
7.2. Conditions for safe storage, includi	ing any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Butoxyethanol (11)	1-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm	
OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	50 ppm	
IDLH	US IDLH (ppm)	700 ppm	
NIOSH	NIOSH REL (TWA) (mg/m ³)	24 mg/m ³	
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm	
Citric acid (77-92-9)			
Not applicable			
Nonylphenol ethoxyl	lates (9016-45-9)		
	lates (9016-45-9)		
Nonylphenol ethoxyl Not applicable Phosphoric acid (766			
Not applicable Phosphoric acid (766		1 mg/m ³	
Not applicable Phosphoric acid (766 ACGIH	64-38-2)	1 mg/m ³ 3 mg/m ³	
Not applicable	64-38-2) ACGIH TWA (mg/m³)		
Not applicable Phosphoric acid (766 ACGIH ACGIH OSHA	64-38-2) ACGIH TWA (mg/m ³) ACGIH STEL (mg/m ³)	3 mg/m ³	
Not applicable Phosphoric acid (766 ACGIH ACGIH	64-38-2) ACGIH TWA (mg/m³) ACGIH STEL (mg/m³) OSHA PEL (TWA) (mg/m³)	3 mg/m ³ 1 mg/m ³	

Personal protective equipment	. Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Color	: Pale yellow	
Odor	: Mild acidic	
Odor threshold	: No data available	
рН	: 0.25	
Melting point	: No data available	
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5	3 .
Freezing point	: -18 °C
Boiling point	: > 93 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: Same as water
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: Same as water
Relative density	: 1.19
Relative vapor density at 20 °C	: Same as water
Solubility	: Infinite in water
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity Thermal decomposition generates : Corrosive vapors. 10.2. **Chemical stability** Not established. Possibility of hazardous reactions 10.3. Not established. **Conditions to avoid** 10.4. Direct sunlight. Extremely high or low temperatures. 10.5. Incompatible materials Strong acids. Strong bases. 10.6. Hazardous decomposition products Carbon monoxide, Carbon dioxide. Thermal decomposition generates : Corrosive vapors

Carbon monoxide. Carbon dioxide. Thermal deco	mposition generates . Conosive vapors.
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed.
Rust Kutter	
ATE US (oral)	1972.840 mg/kg body weight
2-Butoxyethanol (111-76-2)	
LD50 oral rat	470 mg/kg
LD50 dermal rabbit	400 mg/kg
LC50 inhalation rat (ppm)	450 ppm/4h
ATE US (oral)	470.000 mg/kg body weight
ATE US (dermal)	400.000 mg/kg body weight
ATE US (gases)	450.000 ppmV/4h
Nonylphenol ethoxylates (9016-45-9)	
LD50 oral rat	2590 mg/kg
LD50 dermal rabbit	1780 μl/kg
ATE US (oral)	2590.000 mg/kg body weight
Phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg
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Phosphoric acid (7664-38-2)		
LD50 dermal rabbit	2730 mg/kg	
LC50 inhalation rat (mg/l)	> 850 mg/m ³ (Exposure time: 1 h)	
ATE US (oral)	1530.000 mg/kg body weight	
ATE US (dermal)	2730.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes severe skin burns and eye damage.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
2-Butoxyethanol (111-76-2)		
IARC group	3 - Not classifiable	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Harmful if swallowed.	
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.	

SECTION 12: Ecological information

12.1. T	oxicity
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2-Butoxyethanol (111-76-2)	
LC50 fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
Citric acid (77-92-9)	
LC50 fish 1	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
12.2. Persistence and degradability	
Rust Kutter	
Persistence and degradability	Not established.
2-Butoxyethanol (111-76-2)	

Persistence and degradability 12.3. **Bioaccumulative potential**

Rust Kutter				
Bioaccumulative potential	Not established.			
2-Butoxyethanol (111-76-2)				
Log Pow	0.81 (at 25 °C)			
Bioaccumulative potential	Not established.			
Citric acid (77-92-9)				
Log Pow	-1.72 (at 20 °C)			
12.4. Mobility in soil				
No additional information available				
12.5. Other adverse effects				

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local, state, and federal regulations.

: Avoid release to the environment.

Not established.

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SECTION 14: Transport information		
Department of Transportation (DOT)		
In accordance with DOT		
Transport document description	: UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid), 8, III	
UN-No.(DOT)	: UN3264	
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, inorganic, n.o.s.	
	(Phosphoric Acid)	
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136	
Hazard labels (DOT)	: 8 - Corrosive	
Packing group (DOT)	: III - Minor Danger	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
DOT Packaging Bulk (49 CFR 173.xxx)	: 241	
DOT Symbols	: G - Identifies PSN requiring a technical name	
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) T7 - 4 178.274(d)(2) Normal	
DOT Packaging Exceptions (49 CFR 173.154)	 Inner packagings not over 5.0 L (1.3 gallons) net capacity for liquids may be packaged as a limited quantity except for transporation by air. 	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
Other information	: No supplementary information available.	

SECTION 15: Regulatory information	
15.1 US Federal regulations	

Rust Kutter						
SARA Section 311/312 Hazard Classes		Immediate (acute) health hazard				
2-Butoxyethanol (111-76-2)						
Listed on the United States TSCA (Toxic Substances Control Act) inventory						
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard					
SARA Section 313 - Emission Reporting	Glycol Ethers Category					
Citric acid (77-92-9)						
Listed on the United States TSCA (Toxic Substances Control Act) inventory						
Nonylphenol ethoxylates (9016-45-9)						
Listed on the United States TSCA (Toxic Substances Control Act) inventory						

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Phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Sustances List)

Citric acid (77-92-9)

Listed on the Canadian DSL (Domestic Sustances List)

Nonylphenol ethoxylates (9016-45-9)

Listed on the Canadian DSL (Domestic Sustances List)

Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

2-Butoxyethanol (111-76-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Citric acid (77-92-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Nonylphenol ethoxylates (9016-45-9)

Listed on the EU NLP (No Longer Polymers) inventory

Phosphoric acid (7664-38-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

2-Butoxyethanol (111-76-2)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List)

Citric acid (77-92-9)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List)

Nonylphenol ethoxylates (9016-45-9)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Pollutant Release and Transfer Register Law (PRTR Law)

Phosphoric acid (7664-38-2)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

No additional information available

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SECTION 16: Other information

Other information

: None.

Full text of H-phrases:

torrphilases.	
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
	H227 H302 H311 H314 H318

SDS US (GHS HazCom 2012)

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