

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: 05/05/2015 Revision date: 02/18/2021 Version: 3.0

SECTION 1: Identification			
1.1. Identification			
Product form :	Mixture		
Product name	Rust Kutter		
1.2. Recommended use and restrictions or	I USE		
Use of the substance/mixture :	Rust Converter		
1.3. Supplier			
Sanco Industries, Inc.			
1819 S. Calhoun Street			
Fort Wayne, IN 46802			
Phone: 260-426-6281			
Ton Free. 888-097-2020			
1.4. Emergency telephone number	24 Hour Contact CHEMTREC 4 900 424 0200		
Emergency number	24 Hour Contact - CHEMTREC 1-800-424-9300		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixed	ure		
GHS US classification			
Corrosive to metals Category 1 H290 May	be corrosive to metals		
Skin corrosion/irritation Category 1B H314 Caus	inu ir swallowed ies severe skin burns and eve damade		
Full text of H statements : see section 16	, ,		
2.2. GHS Label elements, including precau	tionary statements		
GHS US labeling			
Hazard pictograms (GHS-05)			
Signal word (GHS-US)			
Hazard statements (GHS-US)	H290 - May be corrosive to metals		
	H302 - Harmful if swallowed		
	H314 - Causes severe skin burns and eye damage		
Precautionary statements (GHS-US) :	P234 - Keep only in original container P260 - Do not breathe mist/vapors/sprav		
	P264 – Wash hands and other exposed areas thoroughly after handling		
	P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eve protection		
	P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell		
	P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting		
	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		
	P330 - Rinse mouth		
	P363 - Wash contaminated clothing before reuse		
	P405 - Store locked up		
	P406 - Store in corrosive resistant container with a resistant inner liner		
	i ou i - souse oi contents/container in accordance with local, state, and lederal regulations		

Other hazards which do not result in classification 2.3.

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

### Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phosphoric acid	(CAS-No.) 7664-38-2	35 – 45	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
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 hazard classes and H-statements : 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 label where possible). Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. 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. Call a physician immediately.
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. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effects	s (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures				
5.1.	Suitable (and unsuitable) extinguishing media			
Suitable	extinguishing media	:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitab	le extinguishing media	:	Do not use a heavy water stream.	
5.2.	Specific hazards arising from the che	em	ical	
Hazardous decomposition products in case of : Toxic fumes may be released. fire		Toxic fumes may be released.		
5.3.	Special protective equipment and protective	eca	autions for fire-fighters	
Firefighti	ng instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protectio	n during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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SECTION 6: Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
Emergen	cy procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe mist/vapors/spray.			
6.1.2.	For emergency responders				
Protective	e equipment	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".			
Emergen	cy procedures	· Ventilate area.			
6.2.	Environmental precautions				
Avoid rele	ease to the environment. Prevent entry to	sewers and public waters. Notify authorities if liquid enters sewers or public waters.			
6.3.	Methods and material for containmen	t and cleaning up			
Methods	for cleaning up	<ul> <li>Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.</li> </ul>			
Other info	ormation	Dispose of materials or solid residues at an authorized site.			
6.4.	6.4. Reference to other sections				
See Head	ding 8. Exposure controls and personal p	rotection. For further information refer to section 13.			
SECTIO	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precautic	ons for safe handling	Ensure good ventilation of the work station. 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 mist/vapors/spray. Avoid contact during pregnancy/while nursing. Avoid contact with skin and eyes. Wear personal protective equipment.			
Hygiene	measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product.			
7.2.	Conditions for safe storage, including	any incompatibilities			
Technica	Imeasures	Comply with applicable regulations.			
Storage o	conditions	Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.			
Incompat	ible products	Strong bases. Strong acids.			
Incompat	ible materials	: Sources of ignition. Direct sunlight. Metals.			

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rust Kutter				
No additional information available				
2-Butoxyethanol (111-76-2)				
USA - ACGIH - Occupational Exposure Limits				
ACGIH TWA (ppm)	20 ppm			
USA - ACGIH - Biological Exposure Indices				
Biological Exposure Indices (BEI)	200 mg/g Kreatinin (Medium: urine - Time: end of shift - Parameter: Butoxyacetic acid with hydrolysis)			
USA - OSHA - Occupational Exposure Limits				
OSHA PEL (TWA) (mg/m³)	240 mg/m <sup>3</sup>			
OSHA PEL (TWA) (ppm)	50 ppm			
Limit value category (OSHA)	prevent or reduce skin absorption			
USA - IDLH - Occupational Exposure Limits				
US IDLH (ppm)	700 ppm			

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USA - NIOSH - Occupational Exposure Limits			
NIOSH REL (TWA) (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>		
NIOSH REL (TWA) (ppm)	5 ppm		
US-NIOSH chemical category	Potential for dermal absorption		
Citric acid (77-92-9)			
No additional information available			
Phosphoric acid (7664-38-2)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH TWA (mg/m³)	1 mg/m³		
ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m³		
USA - OSHA - Occupational Exposure Limits			
OSHA PEL (TWA) (mg/m³)	1 mg/m³		
USA - IDLH - Occupational Exposure Limits			
US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>		
USA - NIOSH - Occupational Exposure Limits			
NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>		
NIOSH REL (STEL) (mg/m³)	3 mg/m³		

#### 8.2. Appropriate engineering controls

: Ensure good ventilation of the work station.

Appropriate engineering controls Environmental exposure controls

ure controls

: Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves

#### Eye protection:

Chemical goggles or face shield. Safety glasses

#### 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	d chen	nical properties
Physical state	:	Liquid
Color	:	Pale yellow
Odor	:	Mild acidic
Odor threshold	:	No data available
рН	:	0.25
Melting point	:	Not applicable
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
Vapor pressure	:	Same as water

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Relative vapor density at 20 °C	:	Same as water
Relative density	:	1.19
Solubility	:	Infinite in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

#### 9.2. Other information

#### No additional information available

SECTIO	ON 10: Stability and reactivity			
10.1.	Reactivity			
Thermal	decomposition generates : Corrosive vapors.			
10.2.	Chemical stability			
Not estab	blished.			
10.3.	Possibility of hazardous reactions			
Not established.				
10.4.	Conditions to avoid			
Direct su	nlight. Extremely high or low temperatures.			
10.5.	Incompatible materials			
Strong ad	cids. Strong bases. metals.			

#### Hazardous decomposition products 10.6.

Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	Harmful if swallowed.	
Acute toxicity (dermal)	Not classified	
Acute toxicity (inhalation)	Not classified	
ATE US (oral)	1914.507 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	
Phosphoric acid (7664-38-2)		
LD50 oral rat	1530 mg/kg	
LD50 dermal rabbit	2730 mg/kg	
LC50 inhalation rat (mg/l)	> 850 mg/m³ (Exposure time: 1 h)	
Skin corrosion/irritation :	Causes severe skin burns.	
Serious eye damage/irritation	Assumed to cause serious 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	Evidence of Carcinogenicity	
Reproductive toxicity :	Not classified	
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Specific target organ toxicity – single exposure	:	Not classified
Specific target organ toxicity – repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Viscosity, kinematic	:	No data available
Potential Adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries	:	Causes severe skin burns and eye damage.
Symptoms/injuries after skin contact	:	Burns.
Symptoms/injuries after eye contact	:	Serious damage to eyes.
Symptoms/injuries after ingestion	:	Swallowing a small quantity of this material will result in serious health hazard. Burns.

<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
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

Rust Rutter	
Persistence and degradability Not established.	
2-Butoxyethanol (111-76-2)	
Persistence and degradability Not established.	
12.3. Bioaccumulative potential	
Rust Kutter	
Bioaccumulative potential	Not established.

•	
2-Butoxyethanol (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	0.81 (at 25 °C)
Bioaccumulative potential	Not established.
Citric acid (77-92-9)	
Partition coefficient n-octanol/water (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 consideration	1S
13.1. Disposal methods	
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructionsProduct/Packaging disposal recommendations: Dispose in a safe manner in accordance with local, state, and federal regulations.Ecology - waste materials: Avoid release to the environment.	
<b>SECTION 14: Transport information</b>	
Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid), 8, II

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: UN3264

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Proper Shipping Name (DOT)	: Corrosive liquid, acidic, inorganic, n.o.s.
	(Phosphoric Acid)
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are
	not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 154
Transport by sea	

No additional information available

#### Air transport

No additional information available

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Rust Kutter	
SARA Section 311/312 Hazard Classes	Corrosive to metal Acute toxicity Skin corrosion or irritation
Citric acid (77-92-9)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Phosphoric acid (7664-38-2) Listed on the United States TSCA (Toxic Substances Control Act)	inventory
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15.2. International regulations
CANADA
2-Butoxyethanol (111-76-2)
Listed on the Canadian DSL (Domestic Substances List)
Citric acid (77-92-9)
Listed on the Canadian DSL (Domestic Substances List)
Phosphoric acid (7664-38-2)
Listed on the Canadian DSL (Domestic Substances 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)
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)
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)
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)
15.3. US State regulations

No additional information available

#### SECTION 16: Other information

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Revision date	:	02/18/2021
Other information	:	None.

#### Full text of H-phrases:

Combustible liquid	
May be corrosive to metals	
Harmful if swallowed	
Toxic in contact with skin	
Causes severe skin burns and eye damage	
Causes serious eye damage	
Causes serious eye irritation	

SDS US (GHS HazCom 2012)

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