

安全性数据表

修正版批准时间: 05/28/2015	替换版批准时间: 01/06/2012	首次批准时间: 07/01/2010
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第一部分 -- 鉴定

产品名称: SW original formula		SmartWash® 材料安全性数据表号码: 01 项目号码: 010000
 <p style="text-align: center;">SmartWash® Solutions LLC</p> <p style="text-align: center;">1129 Harkins Rd. Salinas, CA 93901 831.676.9750 网站: www.smartwashesolutions.com</p>	<p>急救电话: CHEMTREC: 1-800-424-9300 加拿大境内: CANUTEC: 613-996-6666 美国及加拿大以外地区: CHEMTREC: 703-527-3887</p> <p>提示: CHEMTREC, CANUTEC 和 National Response Center 急救电话只能用于化学紧急事故, 如化学品泄漏, 火灾, 暴露或化学事故等。</p> <p>健康急救电话: 联系当地的毒物中心</p>	<p>可燃性</p>  <p>健康 不稳定性</p> <p>特殊危害</p> <p>NFPA 代码</p>

常用名称	其他名称	作用
SmartWash®	SmartWash® conventional, SW, T128, F68-T128, Phosphoric Acid Compound—Food Grade	用于食用级产品处理, 食物加工 清洗用水辅助剂

第二部分 -- 危害鉴定

急性毒性—口服:	类别 4.		
急性毒性—皮肤:	类别 4.		
急性毒性—吸入	类别 3.		
对眼睛的腐蚀/刺激性:	类别 1.		
对皮肤对腐蚀/刺激性:	类别 1C.		
对金属对腐蚀性:	类别 1.		
致癌性列表:	IARC Monograph: 无	NTP: 无	OSHA: 无
信号词:	危险		
危险符号:			
危险说明:	吞食有害。 皮肤接触有害。 吸入有害。 可引起严重皮肤灼伤和眼睛损伤。 可严重损害眼睛。 可能会腐蚀金属。		

第二部分 (继续) -- 危害鉴定

预防措施

防止措施:	使用后彻底洗净手。 使用产品期间请勿吃喝及抽烟。 使用时穿戴好手套和防护衣物。 避免吸入产品的烟尘, 气体, 烟雾及喷雾。 只在室外或通风良好的地方使用。 至存放于原装容器中。 不要吸入 戴上眼睛防护。
应对措施:	擦干溅出物以防止造成腐蚀。 脱下污染衣物并在洗净后再重新使用。 如吞食: 如感不适, 致电毒物防治中心或医生。用水清洗口腔。不要催吐。 如沾到皮肤: 用大量水清洗。如感不适, 致电毒物防治中心如果皮肤疼痛, 立即就医。 如吸入: 转移到有新鲜空气到地方并保持通畅呼吸。如感不适, 致电毒物防治中心或医生。 如进眼睛: 用水小心冲洗片刻。如有隐形眼镜, 在条件允许到情况下摘除。然后继续清洗。如果眼睛不适持续: 立即就医。
储藏:	放置在防腐或原装容器中, 并上锁。
弃置:	依据当地/区域/国家/国际有关规定进行弃置。

第三部分 -- 成分 / 配方资料

化学品名称	CAS No.	重量%	LC50/LD50
磷酸	7664-38-2	≤ 30.0%	详见第九部分
成分B (商业机密)	N/A	≤ 20.0%	
水	7732-18-5	≥ 50.0%	

第四部分 -- 急救措施

眼睛:	Immediately flush eyes (holding eyelids apart) with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately
皮肤:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with emollient. Cold water may be used. Wash clothing before reuse. Get medical attention immediately. SERIOUS: Wash with a disinfectant soap and cover the contaminated skin with an antibacterial cream. Seek immediate medical attention.
吞食:	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water (or milk, if available). Never give anything by mouth to an unconscious person. Call a physician immediately.
吸入:	Remove to fresh air. If not breathing, give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory device. If breathing is difficult, give oxygen. Observe for possible delayed reaction. Call a physician immediately. SERIOUS: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

第五部分 -- 消防措施			
易燃性:	不可燃	自燃温度:	不适用于此
燃点:	不适用于此	燃烧生成物:	不适用于此
异常的火灾和爆炸隐患:	不可燃。但在极高温下, 可能发生如下事故: 在热分解时释出氧化磷和/或磷化氢; 与金属反应后产生氢气。与硝基甲烷混合后可爆炸 (产生磷酸)。		
灭火介质:	不可燃。用最适合的灭火剂来为周围的物品灭火。 Use most appropriate agent to extinguish surrounding material.		
特殊的灭火程序和装备:	使用任何合适的方法为周围的物品灭火。 Use any suitable means to extinguish surrounding material. 水喷雾灭火法可以用于冷却暴露在火中的容器。大量使用时可降温并防止酸性物质的累积。 may be used to cool containers exposed to heat, and use in abundance to control heat and acid build-up. Wear full protective clothing NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Keep personnel removed from and upwind of fire.		
第六部分 – 泄漏应急措施			
少量泄漏:	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: neutralize the residue with sodium carbonate.		
大量泄漏:	Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with sodium carbonate. Be careful that the product is not present at a concentration above TLV. Check TLV on the SDS and with local authorities.		
发行说明:	US Regulations (CERCLA) require reporting spills and releases to soil, water and air if in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.		
备注:	See Section XIII for disposal information and Section XV for regulatory requirements.		
第七部分 – 使用和储存			
安全使用 注意事项:	Keep locked up. Keep container dry. Do not ingest. Do not breathe gas/fumes/vapor/spray. Never add water to this product, instead add this product to water in accordance with manufacturer's directions. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package. Use appropriate personal protective equipment as specified in Section VIII. Avoid contact with skin and eyes. Avoid inhalation and ingestion.		
安全储存 环境:	Keep in unopened or tightly closed container. Avoid temperatures below 32°F or above 104°F. Keep away from combustible materials, strong bases and metals. Never use unprotected steel containers.		

第八部分 – 曝露控制/个人防护

技术控制: _____	
防护设备:	Maintain eye wash fountain and quick-drench facilities in work areas.
通风装置 现场 /一般:	Good ventilation should be sufficient to control airborne levels. A system of local and/or general exhaust is recommended to keep employee exposure below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emission of the vapor or mist at its source, preventing dispersion onto the general work areas.
空气中接触限制:	OSHA 允许接触浓度 (PEL): 1 mg/m ³ BACGIH 容许最高浓度 (TLV): 1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
个人防护: _____	
接触在允许浓度范围内:	Use chemical safety goggles and/or a full-face shield where splashing is possible. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls as appropriate to prevent skin contact. See “EXPOSURE LIMITS,” below, for vapor respirator.
接触在超出限制浓度时: 个人防护面具 (NIOSH 批准):	If exposure limit is exceeded, a full-face piece respirator with high-efficiency dust/mist filter may be worn in conditions up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.
紧急/未知 接触浓度:	For emergencies or instances where the exposure levels are not known, use the full-face piece positive-pressure, air-supplied respirator. 警告 Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

第九部分 – 物理和化学性质

外观:	澄清液体	沸点及沸程:	约100°C.
熔点/冰点:	无数据	燃点:	无数据.
稳定性:	易溶于水	蒸汽压力, mm Hg:	2.3 kPa (20°C).
比重:	1.12	分子量:	不适用于此
蒸汽密度 (空气=1):	0.62	% 挥发性:	无数据
体积密度:	9.35 lbs./gal.	挥发率:	不适用于此
pH:	酸性	味道:	无数据
黏度:	无数据	气味阈值:	无数据

第十部分 — 稳定性和反应活性

稳定性:	此产品稳定
反应活性:	Reacts with metals to liberate flammable hydrogen gas. Incompatible with sodium tetrahydroborate producing a violent exothermic reaction. Heat generated with: alcohols, glycols, aldehydes, amides, amines, azo-compounds, carbamates, caustics, esters, ketones, phenols and cresols, organophosphates, epoxides, combustible materials, unsaturated halides, organic peroxides. Formation of flammable products with aldehydes, cyanides, mercaptins, and sulfides. Formation of toxic fumes with cyanides, fluorides, halogenated organics, sulfides, and organic peroxides. Do not mix directly with solutions containing bleach or ammonia except as directed for proper use. (Phosphoric Acid)
要避免的环境:	高温
与其易反应物质:	Slightly reactive to reactive with oxidizing agents, combustible materials, metals and alkalis.
Hazardous Decomposition Products:	Phosphorous oxides and phosphine from thermal decomposition and hydrogen gas from reaction with metals.
Possibility of Hazardous Reactions:	Do not mix directly with solutions containing bleach (and other chlorine compounds) or ammonia.

Section X (continued) — Stability and Reactivity

Special Remarks on Corrosivity:	Extremely corrosive in presence of copper, of stainless steel (304). Highly corrosive in presence of aluminum, of stainless steel (316). Non-corrosive in presence of glass. Corrosive to ferrous metals and alloys (Phosphoric Acid). Severe corrosive effect on brass. Minor corrosive effect on bronze.
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Section XI Toxicological Information

Routes of Exposure:	Absorbed through skin, Eye contact, and/or Inhalation
Oral rat LD₅₀ :	1530 mg/kg; Investigated as a mutagen

Cancer Lists: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Ingredient:	----- NTP Carcinogen -----		
	<u>Known</u>	<u>Anticipated</u>	<u>LARC Category</u>
Phosphoric Acid:	No	No	None
Ingredient B:	No	No	None
Water:	No	No	None

Toxicity to Animals:	Acute Oral Toxicity:	(Rat) LD ₅₀ = 1,530 mg/kg bw
	Acute Inhalation Toxicity:	(Guinea pig, mouse, rat, rabbit) 1-hr. LC ₅₀ = 61—1,689 mg/m ³ P ₂ O ₅
	Acute Dermal Toxicity:	(Rabbit) 24-hr LD ₅₀ (85-75% H ₃ PO ₄) - >1,260 — >3,160 mg/kg bw
	Acute Toxicity, Other Routes:	No data available.
	Repeated Dose Toxicity:	No data available.
	Eye & Skin Irritation/Corrosion:	Eye (Rabbit) OECD Guideline 405: Not irritating at 17% solution but severe irritation at higher concentration Skin: (Rabbit) 24-hour: Highly irritating to corrosive.

Special remarks on Toxicity to Animals:	Developmental Toxicity/Teratogenicity:	No data available.
	Bacterial Genetic Toxicity In-Vitro: Gene Mutation:	(S.typhimurium) Bacterial reverse mutation assay: Negative
	Non-Bacterial Genetic Toxicity In-Vitro: Chromosomal Aberration:	(Sea urchin) Embryo and sperm assays: Aberrations caused at pH 6.5.
	Toxicity to Reproduction:	(Rat) One-generation: 375 mg/kg bw did not affect offspring growth in rats.
	Carcinogenicity:	No additional data available. (See NTF List, above in this Section)

Effects on Humans:	Other Effects:	Inhalation: 10,000 mg/m ³ is immediately dangerous to life (IDLH). Dermal contact may irritate eyes and skin.
	Chronic Effects:	No data available.
	Other Remarks on Effects:	No data available.

Section XII Ecological Information

Special Remarks (Also in this Section XII, below, see General Ecological Information):

Environmental Fate:	When released into the soil, this material may leach into ground water. When released to water, acidity may be readily reduced by natural water hardness minerals. All components readily enter the normal biosphere.
Environmental Toxicity:	No Information found.
Toxicity of the Products of Degradation:	The products of degradation are normal components of the biosphere.
Ecological Effects:	Excessive amounts of Phosphoric Acid can affect the pH shift leading to a potential risk to aquatic organisms.

Section XIII Disposal Considerations

Always dispose of in accordance with local, state and federal regulations.
Please recycle empty container whenever possible.

Additional Packaging: Truck: DOT specification MC 310, MC 301, MC 302, MC 303, MC304, MC 305, MC 306, MC307, MC 310, MC311, MC 312, MC330, MC 331, DOT 406, DOT 407, and DOT 412 cargo tank motor vehicles. Rail: Class DOT 103, 104, 105, 109, 111, 114, 115, or 120 tank car tanks; Class 106 or 110 multi-unit tank car tanks and AAR Class 203W, 206W, and 211W tank car tanks.
Notes:	TDG Note (Canada): If product exceeds CERCLA Reportable Quantity, special RQ notation is required.

Section XIV Transportation Information

	<u>US DOT Domestic (Land)</u>	<u>UN / NA International (Water)</u>
Proper Shipping Name:	SmartWash [®] , Corrosive liquid, NOS (contains Phosphoric Acid)	SmartWash [®] , Corrosive liquid, NOS (contains Phosphoric Acid)
Hazard Class:	DOT Class 8 Corrosive material	8
Identification Number:	UN1760	UN1760
Packing Group (Technical Name):	III	III
Labeling & Placards:	Corrosive	Corrosive
Environmental Hazards:	None	None

第十五部分 相关法规信息

化学品库存状态-----

成分:	TSCA	EC	Japan	Australia	Korea	Canada DSL NDSL		Philippines
Phosphoric Acid (7664-38-2):	Yes - 8 (d)	Yes	Yes	Yes	Yes	Yes	No	Yes
Ingredient B (Trade Secret):	Yes - 8 (d)	Yes	Yes	Yes	Yes	Yes	No	Yes
Water (7732-18-5):	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

Federal, State, and International Regulations -----

INGREDIENT:	SARA 302 -- RQ----- TPQ--		List- - SARA 313 -- Chemical Category	CERCLA	RCRA 261.33	TSCA 8 (d)
Phosphoric Acid (7664-38-2):	No	No	No	No	5,000 lbs.	No
Ingredient B (Trade Secret):	No	No	No	No	No	No
Water (7732-18-5):	No	No	No	No	No	No

Section XVI Other Information

NFPA Hazard Ratings:	Health: 2	Flammability: 0	Reactivity: 0	Special Hazards: COR
	0 = Insignificant	1 = Slight	2 = Moderate	3 = High 4 = Extreme
Product Use:	An adjuvant for food processing application.			
Additional Information:	A food grade adjuvant that enhances the reactivity of existing antimicrobials and is deemed safe and suitable for use in process water for fruit and vegetable products [USDA FSIS Directive 7120.1]. CA Prop 65: this product does NOT contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.			
Revision Information:	Reformatting and revisions, all Sections. Dated: May 28, 2015 Date of original release: July 1, 2010			
Disclaimer:	SmartWash Solutions, LLC, provides the information contained and offers it for information only, and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. SmartWash Solutions, LLC, MAKES NO REPRESENTATIONS OF WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT WHICH THE INFORMATION REFERS. ACCORDINGLY, SmartWash Solutions, LLC, WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM RELIANCE UPON THIS INFORMATION.			