Safety Data Sheet
TRIPLE-SAN

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME	TRIPLE-SAN
SYNONYMS	Product is a mixture: No synonyms are available
PRODUCT USE	Highly Acidic Material
SUPPLIER	WESMAR CO. INC.
SUPPLIER'S ADDRESS	5720 204TH ST. SW, LYNNWOOD, WA 98036 (206) 783-5344
EMERGENCY RESPONSE PHONE	PERS: 1-800-633-8253

QUALITY • SERVICE • INTEGRITY

SECTION 2 – HAZARD IDENTIFICATION

GHS – US CLASSIFICATION	:	H290	Metal corrosion Category 1
		H302	Harmful if swallowed
	:	H314	Skin Corrosion Category 1A
	:	H318	Serious Eye Damage Category 1
	:	H370	STOT SE 1

HAZARD PICTOGRAMS :

SIGNAL WORD	:	**DANGER**	
GHS LABEL ELEMENTS	:	The product is classified and labeled according to the Globally Harmonized System (GHS).	
GHS PHYSICAL HAZARDS	:	H290	May be corrosive to metals.
GHS HEALTH HAZARDS	:	H302	Harmful if swallowed
	:	H314	Causes severe skin burns and eye damage.
	:	H318	Causes serious eye damage.
	:	H370	Causes damage to respiratory system by inhalation.
GHS PRECAUTIONARY HAZARDS	:	P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P103	Read label before use.
		P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		P264	Wash skin and contaminated clothing thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P280	Wear suitable protective gloves/protective clothing/eye protection/face protection.
		P303+P361 +P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	:	P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	:	P305+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position.
	:	P310	Immediately call a POISON CENTER or doctor/physician.
	:	P330	Rinse mouth if ingested.
	:	P405	Store locked up.
	:	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
CLASSIFICATION SYSTEM:	:	NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.	

NFPA ratings (scale 0-4): : Health = 3, Fire = 0, Reactivity = 1
HMIS ratings (scale 0-5): : Health = 3, Fire = 0, Reactivity = 1

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION : Mixtures
DESCRIPTION : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Phosphoric acid	5-10	7664-38-2	231-633-2	Skin Corr Cat 1B, Eye Dam Cat 1
Sulfuric acid	5-10	7664-93-9	331-639-5	Skin Corr Cat 1A, Eye Dam Cat 1 STOT SE 3, Metal Corr Cat 1
Propionic acid	Proprietary	79-09-4	201-176-3	Not Found
Capric acid	Proprietary	334-48-5	206-376-4	Not Found
Pelargonic acid	Proprietary	112-05-0	203-931-2	Not Found

Corr. = Corrosion, Cat = Category, Tox = Toxicity, Inhal. = Inhalation, Dam = Damage, STOT SE = Specific Target Organ Toxicity Single Exposure. Also contains non hazardous biodegradable surfactant(s).

SECTION 4 – FIRST AID MEASURES

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with water for at least 15 minutes. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention. Wash contaminated clothing before reuse.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Immediate call a POISON CENTER or doctor/physician.

INHALATION : When symptoms occur, go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor/physician.

GENERAL MEASURES : Never give anything by mouth to an unconscious person. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Water spray, fog, carbon dioxide, foam, dry chemical

SPECIAL HAZARDS (FIRE) : Not flammable. Contains sodium hypochlorite which may act as an oxidizer in some cases intensifying a fire.

EXPLOSION HAZARDS : Product is not explosive.

REACTIVITY (FIRE) : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

PRECAUTIONARY MEASURES : Exercise caution when fighting any chemical fire.

FIREFIGHTING INSTRUCTIONS : Use water spray or fog for cooling exposed containers.

PROTECTION DURING FIREFIGHTING : Do not enter fire area without proper protective equipment, including respiratory protection.

HAZARDOUS COMBUSTION : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides.

PRODUCTS Nitrogen oxides. Carbon oxides (CO, CO_2). Explosive Hydrogen gas.
OTHER INFORMATION (FIRE) : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUSTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PRECAUTIONS : Keep spilled material away from sewage/drainage systems and waterways. If amounts exceeding the Reportable Quantity (5000 lbs. as phosphoric acid) are released, notification of the National Response Center (800) 424-8802 is required. See section15 for more information.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

CONDITIONS FOR SAFE STORAGE : Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).




SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	USA OSHA PEL – TWA	USA ACGIH TWA	USA ACGIH – STEL
Phosphoric Acid	1 mg/m^3	1mg/m^3	3mg/m^3
Sulfuric Acid	1 mg/m^3	0.5 mg/m^3	3mg/m^3
Propionic acid	10 ppm (30mg/m^3)	10 ppm	Not Established
Capric acid	Not Established	Not Established	Not Established
Pelargonic acid	Not Established	Not Established	Not Established

EYE PROTECTION : Wear chemical splash goggles or face shield.

SKIN PROTECTION : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

RESPIRATORY PROTECTION : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

VENTILATION : Ensure adequate ventilation.

ADDITIONAL MEASURES	:	Emergency eyewash and safety shower facilities should be available in the immediate work area.
REQUIRED WORK/HYGIENE	:	Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	:	Clear colorless liquid with distinct odor.
ODOR	:	Mild odor
ODOR THRESHOLD	:	Not available
PH	:	2.0 - 3.0 AS IS
MELTING POINT/FREEZING POINT	:	Not available
BOILING POINT	:	Not available
FLASHPOINT	:	Not applicable
EVAPORATION RATE	:	Not available
FLAMMABILITY	:	Non flammable, Non combustible
LOWER FLAMMABILITY LIMIT	:	Not applicable
UPPER FLAMMABILITY LIMIT	:	Not applicable
VAPOR PRESSURE	:	Not available
VAPOR DENSITY (AIR=1)	:	Not available
RELATIVE DENSITY	:	1.15
SOLUBILITY IN WATER	:	Soluble in water
PARTITION COEFFICIENT n-OCTANOL/WATER	:	Not available
AUTOIGNITION TEMPERATURE	:	Not available
DECOMPOSITION TEMPERATURE	:	Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY	:	Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosion hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.
STABILITY	:	Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	:	Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials. Incompatible materials.
INCOMPATIBLE MATERIALS	:	Chlorinated products such as bleach, alkaline materials, metals, metal powder, carbides, chlorates, fumigates, nitrates, picrates, strong oxidizers, reducing or combustible organic material. Hazardous gases are evolved on contact with chemicals such as chlorine bleach, cyanides, sulfides and carbides.
HAZARDOUS DECOMPOSITION PRODUCTS	:	Carbon oxides (CO, CO_2). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	:	**Phosphoric Acid**
ACUTE ORAL TOXICITY	:	LD50 (rat) is greater than 1,530 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425).
ACUTE DERMAL TOXICITY	:	LD50 (rat) is greater than 3,160 mg/kg (ppm); not acutely toxic by dermal exposure. (TFI Product Testing Results, OECD Guideline 402).
ACUTE INHALATION TOXICITY	:	LC50 (guinea pig, mouse, rat, rabbit) is 61-1,689 mg/m3; highly toxic by inhalation. (TFI Product Testing Results)

ACUTE FISH TOXICITY	:	96-hour LC_{50} is 3.0-3.5 mg/L (ppm); moderate toxicity to aquatic organisms. (TFI Product testing Results, OECD Guideline 203).
TOXICOLOGICAL INFORMATION	:	**Sulfuric Acid**
ACUTE TOXICITY	:	Liquid and mist cause severe irritation and burns to all body tissue. May be fatal if swallowed or inhaled. Inhalation may cause lung damage. Avoid breathing vapor.
ACUTE ORAL TOXICITY	:	LD50 Oral (rat) 2140mg/kg.
ACUTE INHALATION TOXICITY	:	LC50 Inhalation (rat) 510mg/kg.
REPEATED DOSE TOXICITY	:	Prolonged or repeated inhalation may cause nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis. Prolonged or repeated eye contact may cause conjunctivitis.
CARCINOGENICITY	:	Not a known carcinogen
SPECIAL REMARKS: TOXIC EFFECTS ON HUMANS	:	The severity of damage depends on the concentration of the acid and the duration of the exposure. Contact with water will generate considerable heat. Contact with most metals will generate flammable hydrogen gas.
TOXICOLOGICAL INFORMATION	:	**Propionic Acid**
ACUTE TOXICITY	:	LD50 Oral (rat): 400 mg/kg. LC50 Inhalation (rat): 19.7 mg/L.
CARCINOGENICITY (IARC)	:	Not listed as a carcinogen.
TOXICOLOGICAL INFORMATION	:	**Capric Acid**
ACUTE TOXICITY	:	LD50 Oral (rat): 3320 mg/kg. LD50 Dermal (rabbit): 5000 mg/kg.
CARCINOGENICITY (IARC)	:	Not listed as a carcinogen.
TOXICOLOGICAL INFORMATION	:	**Pelargonic Acid**
ACUTE TOXICITY	:	LD50 Oral (rat): 5000 mg/kg.
CARCINOGENICITY (IARC)	:	Not listed as a carcinogen.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	**Phosphoric Acid**
AQUATIC TOXICITY	:	Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift. Insufficient data available on eco-toxicity. LC50/96hour:138mg/L (Gambusia Afinis).
PERSISTENCE AND DEGRADABILITY	:	No relevant information available.
BIOACCUMULATIVE POTENTIAL	:	No relevant information available.
NOTES	:	Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinsing larger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms.
ECOLOGICAL INFORMATION	:	**Sulfuric Acid**
AQUATIC ECOTOXICITY	:	Gambusia affinis (Mosquito Fish): 96 hour LC50 42 mg/l
PERSISTENCE AND DEGRADABILITY	:	The acid will permeate soil, dissolving some soil material and will be somewhat neutralized. High water solubility. Sulfuric acid dissociates in water and it will lower pH. It will be neutralized by naturally alkalinity of surface water
ENVIRONMENTAL ADVERSE EFFECTS	:	Toxic to aquatic life. Acidic substance leading to a lower pH. However, pH will increase rather quickly because of dilution until an ecological neutral product is obtained. Fatal to aquatic life due to pH shift.
ECOLOGICAL INFORMATION	:	**Propionic Acid**

ECOTOXICITY-FRESH WATER	:	EC50 = 43 mg/L 96 h
ALGAE		EC50 = 45.8 mg/L 72 h
ECOTOXICITY-MICROTOX	:	EC50 = 59.6 mg/L 17 h
ECOLOGICAL INFORMATION	:	**Capric Acid**
ECOTOXICITY-MICROTOX	:	EC50 = 11.2 mg/L 5 min
		EC50 = 9.0 mg/L 25 min
		EC50 = 9.31 mg/L 15 min
ECOTOXICITY-WATER FLEA	:	EC50 = 65 mg/L 24 h
ECOLOGICAL INFORMATION	:	**Pelargonic Acid**
AQUATIC TOXICITY	:	Not Found
ENVIRONMENTAL FATE	:	Not Found

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATIONS	:	This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.
ECOLOGY-WASTE MATERIALS	:	This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	:	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULFURIC ACID, PHOSPHORIC ACID) 8, PGII
HAZARD CLASS AND LABEL	:	8 (Corrosive)
UN NUMBER	:	UN3264
PACKAGING GROUP	:	PGII
EPA REPORTABLE QUANTITY (RQ)	:	1000 LBS. (454 KG) as Sulfuric or Hydrochloric acid 100%.
MARINE POLLUTANT	:	No
EMERGENCY RESPONSE GUIDE	:	ERG-154

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN	:	Not listed
TSC STATUS	:	The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)
SARA SECTION 302	:	1,000 lbs.
SARA SECTION 311/312 HAZARD CLASS	:	Immediate (acute) health hazard. Reactive hazard.
SARA SECTION 313	:	Sulfuric acid (as mist)
NFPA HEALTH	:	3
NFPA FLAMMABILITY	:	0
NFPA REACTIVITY	:	1

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION	:	C: Corrosive, Xn: Harmful.
DSD/DPD RISK (R) PHRASES	:	R34: Causes severe burns.

R22: Harmful is swallowed.

DSD/DPD SAFETY (S) PHRASES : S1/2: Keep locked up and out of reach of children.
S18: Handle and open containers with care.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
S61: Avoid release to the environment.
S64: If swallowed, rinse mouth with water if victim is conscious.

DSD/DPD HAZARD SYMBOL : C: Corrosive, Xn: Harmful

CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY : Class E: Corrosive, Class D2B: Materials that cause other toxic effects (TOXIC).

DOMESTIC SUBSTANCES LIST (DSL) : Listed

Class D1A: (Sulfuric acid) Poisonous and infectious material – Immediate and serious effects Very TOXIC.

DOMESTIC SUBSTANCES LIST (DSL) : Listed

INGREDIENT DISCLOSURE LIST : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by the CPR.

SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be realiable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Wesmar Co. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS : European Inventory of Existing Commercial Chemical Substances
IMDG : International Maritime Code for Dangerous Goods
IARC : International Agency for Research on Cancer
IATA : International Air Transportation Association
ACGIH : American Conference of Governmental Industrial Hygienists
NFPA : National Fire Protection Association (USA)
NTP : National Toxicology Program
SARA : Superfund Amendments and Reauthorization Act
TSCA : Toxic Substances Control Act
HMIS : Hazardous Materials Identification System (USA)
WHMIS : Workplace Hazardous Materials Information System
LC50 : Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
STOT : Systemic Target Organ Toxicity

DATE PREPARED : MAR 1, 2015
DATE REVISED : OCT 12, 2018