Safety Data Sheet
FALLOUT REMOVER

SECTION 1- PRODUCT IDENTIFICATION

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

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SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS U.S. – CLASSIFICATION	:	H302	Harmful if swallowed.
		H315	Causes skin irritation
		H319	Causes serious eye irritation

LABEL ELEMENTS : **GHS – US HAZARD PICTOGRAMS** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :

SIGNAL WORD	:	WARNING	
HAZARD STATEMENTS (GHS-US)	:		Not established
	:	H302	Harmful if swallowed.
	:	H315	Causes skin irritation.
	:	H319	Causes serious eye irritation.
PRECAUTIONARY STATEMENTS (GHS-US)	:	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.
	:	P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	:	P302+P352	: IF ON SKIN: Wash with plenty of soap and water.
	:	P305+351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	:	P332+P313	If skin irritation occurs: Get medical advice/attention.
	:	P337+P313	If eye irritation persists: Get medical advice/attention.
	:	P501	Dispose of contents/container in accordance with local /regional / national / international regulations.
OSHA HAZARDS	:	Target Organ Effect (Glycol Ether DPM)	
TARGET ORGANS	:	Kidney, Liver, Nerves (Glycol Ether DPM).	

CLASSIFICATION SYSTEM : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA RATINGS (SCALE 0-4) : Health = 2, Fire = 0, Reactivity = 0
HMIS RATINGS (SCALE 0-5) : Health = 2, Fire = 0, Reactivity = 0

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Oxalic acid	5-10	144-62-7	205-634-3	Acute Toxicity Oral & Dermal Cat 4
Citric acid	5-10	77-92-9	201-069-1	Skin Corr Cat 1C

Cat = Category, Corr = Corrosion, Irrit = Irritant, Dam = Damage, Tox = Toxicity, Inhal = Inhalation, STOT RE = Specific Target Organ Toxicity Repeated Exposure.

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF 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.

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 soap and water. Delayed skin damage is possible if product is not completely washed off. If irritation persists, get immediate medical attention.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION : Remove to fresh air. If symptoms persist, get immediate medical attention.

OTHER INSTRUCTIONS : 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

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 PRODUCTS : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. 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 PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PROCEDURES : Keep spilled material away from sewage/drainage systems and waterways.

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
Oxalic acid	1 mg/m^3	1mg/m^3	3mg/m^3
Citric 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 mild odor.

ODOR : Mild odor

ODOR THRESHOLD : Not available

PH : 5-6

MELTING POINT/FREEZING POINT	:	Not available
BOILING POINT	:	Approx. 212° F.
FLASH POINT	:	Non flammable, non combustible
EVAPORATION RATE	:	Not available
FLAMMABILITY	:	Non flammable-Non combustible
LOWER FLAMMABILITY LIMIT	:	Not available
UPPER FLAMMABILITY LIMIT	:	Not available
VAPOR PRESSURE	:	Not available
VAPOR DENSITY (AIR=1)	:	Not available
RELATIVE DESNITY	:	1.05
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	:	**Oxalic Acid**
ACUTE TOXICITY	:	LD50 Oral (rat) is 7500 mg/kg; LD50 Dermal (rat): 2000 mg/kg.
SKIN CORROSION IRRITATION	:	Causes severe skin burns and eye damage.
CARCINOGENICITY	:	No data available, IARC: 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.

TOXICOLOGICAL INFORMATION	:	**Citric Acid**
ACUTE ORAL TOXICITY	:	LD50 Oral (mouse): 5 400 mg/kg, : LD50 Oral (rat): 3 000 mg/kg
SKIN IRRITATION	:	Mild skin irritation (rabbit, OECD Test Guideline 404, 72 h)
EYE IRRITATION	:	Severe eye irritation (rabbit, OECD Test Guideline 405, 72 h)
INHALATION IRRITATION	:	May cause irritation of respiratory tract.
REPEATED DOSE TOXICITY	:	NOAEL (Oral, rat) : 1 200 mg/kg/day, Chronic toxicity study (2 years)
CARCINOGENICITY	:	Animal testing did not show any carcinogenic effects. (rat ,oral)

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	**Oxalic acid**
LC50 FISH 1	:	34.1 mg/l (96 h; Pimephales promelas; ANHYDROUS FORM)
LC50 OTHER AQUATIC ORGANISMS	:	100 - 1000 mg/l (96 h; ANHYDROUS FORM)
EC50 DAPHNIA	:	137 mg/l (48 h; Daphnia magna; ANHYDROUS FORM)
PERSISTENCE AND DEGRADABILITY	:	Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions. Photolysis in water. Biodegradable in the soil. Photolysis in the air.
BIOACCUMULATION	:	Not applicable.

ECOLOGICAL INFORMATION	:	**Citric Acid**
AQUATIC TOXICITY FISH	:	Leuciscus idus (Golden orfe) LC50 (96 h) > 440 - 760 mg/l
TOXICITY: DAPHNIA OTHER AQUATIC INVERTEBRATES	:	Daphnia magna (Water flea) EC50 (72 h) ca. 120 mg/l
TOXICITY TO ALGAE	:	Scenedesmus quadricauda (Green algae) EC0 (7 d) 640 mg/l
BIODEGRADABILITY	:	Readily biodegradable. 98 % (2 d) (OECD Test Guideline 302B)

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	:	UN-3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (OXALIC ACID, CITRIC ACID) 8, PG-II
HAZARD CLASS AND LABEL	:	8 (Corrosive)
UN NUMBER	:	UN-3265
PACKAGING GROUP	:	PG - II
EPA REPORTABLE QUANTITY (RQ)	:	N/A
MARINE POLLUTANT	:	Marine Pollutant
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	:	None
SARA SECTION 311/312 HAZARD CLASS	:	Immediate (acute) health hazard.
SARA SECTION 313	:	Not Listed
NFPA HEALTH	:	2
NFPA FLAMMABILITY	:	0
NFPA REACTIVITY	:	0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION	:	C: Corrosive
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
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
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