

Safety Data Sheet

Strike 3

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME Strike 3
SYNONYMS Strike Out
PRODUCT USE Highly Acidic Cleaner
SUPPLIER United Formulas
SUPPLIER'S ADDRESS 601 6th St SW Unit 5, Great Falls, MT 59404
 (406) 727-4144
EMERGENCY RESPONSE PHONE Infotrac: 1 800-535-5053



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.
 : H302 Harmful if swallowed
 : H314 Causes severe skin burns and eye damage.
 : H318 Causes serious eye damage.

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.
 : P301+P330 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 : +P331
 : P310 Immediately call a POISON CENTER or doctor/physician.
 : P303+P361 IF ON SKIN (or hair): Remove/Take off immediately all contaminated
 : +P353 clothing. Rinse skin with water/shower.
 : P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove
 : +P338 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.
 : 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 = 2, Fire = 0, Reactivity = 1

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HMIS ratings (scale 0-5): : Health = 2, Fire = 0, Reactivity = 1

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Phosphoric acid	20-40	7647-14-5	231-598-3	Skin Corrosion Category 1B, Eye Damage Category 1
Sodium Chloride	1-5			Not Classified under GHS

SECTION 4 – FIRST AID MEASURES

EYE CONTACT : Immediately flush the 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 the 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 person 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.

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, CO₂). Explosive Hydrogen gas.

OTHER INFORMATION (FIRE) : Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

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EMERGENCY PROCEDURES

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 section 15 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 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
Sodium Chloride	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 stuff, beverages, and feed. Do not eat, drink, or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear viscous red liquid

ODOR : Cherry scent

ODOR THRESHOLD : Not available

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PH	: < 2.0
MELTING POINT/FREEZING POINT	: Not available
BOILING POINT	: Not available
FLASHPOINT	: Not applicable
EVAPORATION RATE	: Not available
FLAMMABILITY	: Nonflammable, Noncombustible
LOWER FLAMMABILITY LIMIT	: Not applicable
UPPER FLAMMABILITY LIMIT	: Not applicable
VAPOR PRESSURE	: Not available
VAPOR DENSITY (AIR=1)	: Not available
RELATIVE DENSITY	: 1.17
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).
CARCINOGENICITY	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.
TOXICOLOGICAL INFORMATION	: Sodium Chloride
ACUTE TOXICITY	: LD50 (dermal, rabbit): >10000 mg/kg, LD50 (oral, rat): 3000 mg/kg.
SENSITISATION	: After skin contact: Slight irritations. After eye contact: Slight irritations. After swallowing of large amounts: nausea, vomiting.

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CHRONIC EFFECTS	: Non carcinogenic in animal experiments. No mutagenic effect in animal experiments. Mutagenicity (mammal cell test): micronucleus negative. Bacterial mutagenicity: Ames test is negative. No impairment of reproductive performance suspected. No teratogenic effect in animal experiments.
FURTHER TOXICOLOGICAL INFORMATION	: No toxic effects are to be expected when the product is handled appropriately.

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 Affinis).
PERSISTENCE & 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 products 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	: Sodium Chloride
ACUTE TOXICITY	: Concentration in organisms is not to be expected. Fish toxicity: P. Promelas LC50: 7650 mg/l /96 h, Daphnia Toxicity; Daphnia magna EC50: 1000 mg/l/48 h.
PERSISTENCE & DEGRADABILITY	: Method for the determination of biodegradability is not applicable to inorganic substance.
FURTHER ECOLOGICAL DATA	: No ecological problems are to be expected when the product is handled and used with due care and attention.

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	: UN1805 PHOSPHORIC ACID, SOLUTION 8, PGIII
HAZARD CLASS AND LABEL	: 8 (Corrosive)
UN NUMBER	: UN1805
PACKAGING GROUP	: PGIII
EPA REPORTABLE QUANTITY (RQ)	: 5000 LBS. (454 KG) as Phosphoric acid 100%.
MARINE POLLUTANT	: Not Listed.
EMERGENCY RESPONSE GUIDE	: ERG-154



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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. (Sulfuric acid), 100 lbs. (Hydrogen Fluoride)
SARA SECTION 311/312	: Immediate (acute) health hazard. Reactive hazard. (Sulfuric acid)
HAZARD CLASS	
SARA SECTION 313	: Sulfuric acid (as mist/aerosol only). Hydrochloric acid (as mist/aerosol only). Phosphoric acid, CAS No. 7664-38-2, which is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments Act of 1986 and 40 CFR Part 372.
NFPA HEALTH	: 2
NFPA FLAMMABILITY	: 0
NFPA REACTIVITY	: 1

CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY	: Class E: Corrosive Class D2B: Materials that cause other toxic effects (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 the information required by the CPR.



SECTION 16 – OTHER INFORMATION

DISCLAIMER	: The information contained herein has been compiled from sources believed to be reliable 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. United Formulas 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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