

SAFETY DATA SHEET

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SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : APEX
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Moderately Alkaline Material
SUPPLIER : United Formulas
SUPPLIER'S ADDRESS : 601 6th St SW Unit 5, Great Falls, MT 59404
EMERGENCY RESPONSE PHONE : Infotrac: 1-800-535-5053



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) : 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.
 : 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+P351+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 : Not applicable

TARGET ORGANS : Not applicable

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 – COMPOSITION/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EINECS #	GHS CLASSIFICATION
Sodium Tripolyphosphate		7758-29-4	231-838-7	Skin & Inhalation Irrit. Cat 4
Tetrapotassium Pyrophosphate		7320-34-5	230-785-7	Not Established
Sodium Silicate		1344-09-8	215-687-4	Skin Irrit Cat 2, Eye Dam Cat 1
Ethylenediamine Tetraacetate Na salt		64-02-8	200-573-9	Skin Irrit Cat 2, Eye Dam Cat 2A

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, Sens = Sensitization, Flam = Flammable, STOT-SE = Specific Target Organ Toxicity-Single Exposure, Inhal = Inhalation.

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 the eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get immediate medical attention.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if the product is not completely washed off. Get immediate medical attention.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. **DO NOT INDUCE VOMITING.** If vomiting occurs spontaneously, keep the 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. 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 : Dry chemical, foam, water, or carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS : In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.

UNUSUAL FIRE AND EXPLOSION HAZARDS : No further relevant information is available.

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

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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** : Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.
- CONDITIONS FOR SAFE STORAGE** : Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.



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	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
Sodium Tripolyphosphate	Not Established	Not Established	Not Established
Tetrapotassium Pyrophosphate	2.5mg/m ³	2.5 mg/m ³	7.6 mg/m ³
Sodium Silicate	Not Established	Not Established	Not Established
Ethylenediamine Tetraacetate	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 liquid
- ODOR** : Mild odor
- ODOR THRESHOLD** : Not available
- PH** : 12.0 - 12.5
- MELTING POINT/FREEZING POINT** : Not available
- BOILING POINT** : Approx. 212° F.
- FLASH POINT** : Nonflammable, Noncombustible
- EVAPORATION RATE** : Not available
- FLAMMABILITY** : Nonflammable, Noncombustible
- LOWER FLAMMABILITY LIMIT** : Not available
- UPPER FLAMMABILITY LIMIT** : Not available
- VAPOR PRESSURE** : Not available

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VAPOR DENSITY (AIR=1)	:	Not available
RELATIVE DENSITY	:	1.1
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

STABILITY	:	Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	:	No decomposition if used according to specifications
INCOMPATIBLE MATERIALS	:	Keep away from strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	:	No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	:	Sodium Tripolyphosphate
ACUTE TOXICITY	:	Oral - rat LD50 - 5,400 mg/kg; practically non-toxic Dermal - rabbit LD50 - > 7,940 mg/kg; practically non-toxic Eye Irritation - rabbit - 3.3/110.0; slightly irritating. Skin Irritation - rabbit - 0-0/8.0 (24-hr exp.); not irritating. Inhalation - LC50 > 0.39 mg/L (rat, 4 hr) (maximum attainable concentration)
TOXICOLOGICAL INFORMATION	:	Tetrapotassium Pyrophosphate
ACUTE TOXICITY	:	Oral - rat LD50: > 2980 mg/kg; slightly toxic Dermal - rabbit LD50: > 7940 mg/kg; practically nontoxic Eye Irritation - rabbit: 11.1/110.0; moderately irritating Skin Irritation - rabbit: 0.5/8.0 (24-hr exposure); practically nonirritating.
TOXICOLOGICAL INFORMATION	:	Sodium Silicate
ACUTE TOXICITY	:	LD50 Oral (Rat): 1153 mg/kg, LD50 Dermal (Rabbit): 4640 mg/kg. Sodium silicate is a type of amorphous silica and does not cause pulmonary silicosis.
CARCINOGENICITY	:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
TOXICOLOGICAL INFORMATION	:	Ethylenediamine Tetraacetate
ACUTE TOXICITY	:	LD50 Oral (rat): 630 - 1,260 mg/kg,
INHALATION LC50	:	No data available
DERMAL LD50	:	No data available
OTHER INFORMATION ON ACUTE TOXICITY	:	No data available

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	Sodium Tripolyphosphate
ECOTOXICITY	:	Invertebrate: 48-hr LC50 Daphnia magna: > 1000 mg/L; Practically Nontoxic 96 hr. LC 50 > 100 mg/L, non-toxic (Rainbow trout, Inland silversides, and mysid shrimp). [FMC I89-1081, 1082 & 1083] 48 hr. LC 50 > 100 mg/L, non-toxic (Daphnia magna) [FMC I89-1084]

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PERSISTENCE and DEGRADABILITY	:	No data available.
ENVIRONMENTAL FATE	:	Phosphates: Inorganic phosphates, including this product, at high concentrations in the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.
ECOLOGICAL INFORMATION	:	Tetrapotassium Pyrophosphate
ECOTOXICITY	:	48-hr EC50 Daphnia magna: > 100 mg/l, Practically Nontoxic 96-hr LC50 Mysid Shrimp > 100 mg/l, Practically Nontoxic 96-hr LC50 Rainbow trout: > 100 mg/l, Practically Nontoxic.
ENVIRONMENTAL FATE	:	Phosphates: Inorganic phosphates, including this product, at high concentrations in the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.
ECOLOGICAL INFORMATION	:	Ethylenediamine Tetraacetate
ECOTOXICITY	:	No data available.
PERSISTENCE AND DEGRADABILITY	:	No data available.
BIOACCUMULATIVE POTENTIAL	:	No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	:	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.
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SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	:	Not Hazardous
HAZARD CLASS AND LABEL	:	Not Applicable.
UN NUMBER	:	Not Applicable.
PACKAGING GROUP	:	Not Applicable.
EPA REPORTABLE QUANTITY (RQ)	:	Not Applicable.
MARINE POLLUTANT	:	Not listed.
EMERGENCY RESPONSE GUIDE	:	Not Applicable.

SECTION 15 – REGULATORY INFORMATION

U.N. GHS CLASSIFICATION & LABELING INFORMATION: See Section 2 for GHS Hazard Information

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN	:	Not listed.
TSCA STATUS	:	The ingredients of this product are listed in TSCA inventory (40CFR 710.)
SARA SECTION 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA SECTION 312	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 312.
SARA SECTION 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
NFPA HEALTH	:	2
NFPA FLAMMABILITY	:	0
NFPA REACTIVITY	:	0

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY	:	D2B: Materials that cause other toxic effects (TOXIC).
DOMESTIC SUBSTANCES LIST (DSL)	:	Listed
INGREDIENT DISCLOSURE LIST	:	Listed


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
DATE PREPARED	:	DEC 29, 2021
DATE REVISED	:	SEP 23, 2025