

Component F: Danger
Component G: Warning

GHS Hazard Statements:

Component A: Not Applicable
Component B: Not Applicable
Component C: H303 May be Harmful if swallowed.
Component D: H303 May be Harmful if swallowed.
Component E: H303 May be Harmful if swallowed.
Component F: H318 Causes serious eye damage.
H315 Causes skin irritation
Component G: H303 May be harmful if swallowed.

GHS Precautionary Statements:

Component A: -None
Component B: -None
Component C: -None
Component D: -None
Component E: -None
Component F: - P280 Wear protective gloves/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Component G: -None

HMIS Classification:

Component A:	Component B:	Component C:	Component D:	Component E:	Component F:	Component G:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 3	Health hazard: 0
Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 0	Flammability: 0
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0

NFPA Rating:

Component A:	Component B:	Component C:	Component D:	Component E:	Component F:	Component G:
Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 0	Health hazard: 3	Health hazard: 0
Fire: 0	Fire: 0	Fire: 0	Fire: 0	Fire: 0	Fire: 0	Fire: 0
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name:	Description	CAS Number:
Component A	Proprietary	N/A
Component B	Proprietary	N/A
Component C	Proprietary	N/A

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Component D	Proprietary	N/A
Component E	Proprietary	N/A
Component F	Contains 1M Hydrochloric Acid	7647-01-0, 7732-18-5
Component G	Proprietary	N/A

Component A*Inhalation:* NA*Ingestion:* NA*Skin:* NA*Eyes:* NA**Component B,C, D, E and G***Inhalation:* If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.*Ingestion:* Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.*Skin:* Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.*Eyes:* Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.**Component F***Inhalation:* If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.*Ingestion:* Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.*Skin:* Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.*Eyes:* Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.**5. Fire Fighting Measures****AnaSpec Inc.**

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<i>Extinguishing media:</i>	Component A, B, C, D, E, and G Not applicable. Component F: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.
<i>Special firefighting procedures:</i>	Component A, B, C, D, E, and G: Not applicable. Component F: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<i>Unusual fire and explosions hazards:</i> \\	Component A, B, C, D, E, F and G: Not applicable.

6. Accidental Release Measures

<i>Containment and spill response</i>	Component A, B : Not applicable. Component C, D, E and G: Keep in suitable, closed containers for disposal. Component F: Soak up with inert absorbent material. Keep in suitable closed containers for disposal. Do not let material enter drains.
<i>PPE</i>	Use personal protective equipment

7. Handling and Storage

Component A, B, C, D, E, and G: Not Applicable.

Component F

Handling: Wash thoroughly after handling. Remove and wash any contaminated clothing. Keep container tightly closed and avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid ingestion and inhalation. Keep away from heat and flame.

Storage: Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances. Storage under a nitrogen blanket has been recommended.

8. Exposure Controls / Personal Protection

<i>Engineering controls</i>	Component F: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present. Component A, B, C, D, E, and G: Not applicable.
<i>PPE</i>	Component A, B, C, D, E and G: Not Applicable.

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	<p>Component F</p> <p><i>Respiratory System:</i> A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.</p> <p><i>Skin and Body:</i> Wear appropriate work uniform or laboratory coat to prevent skin exposure.</p> <p><i>Hands:</i> Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves.</p> <p><i>Eyes:</i> Wear chemical splash goggles.</p>
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9. Physical and Chemical Properties

<i>Physical State</i>	Liquid
<i>Odo</i>	Not determined
<i>Solubility in Water</i>	Soluble
<i>Specific Gravity</i>	Not determined
<i>pH</i>	Component C: pH-7.5 Component D: pH-7.5 Component G: pH-7.5 Component F: pH-1.1
<i>Boiling Point</i>	Not determined
<i>Melting Point</i>	Not determined
<i>Flash Point</i>	Not determined
<i>Vapor Pressure:</i>	Not determined
<i>Vapor Density:</i>	Not determined

10. Stability and Reactivity

<i>Thermal Decomposition</i>	Not applicable
<i>Dangerous Products of Decomposition</i>	Not Applicable
<i>Dangerous Reactions</i>	Not Applicable

11. Toxicological Information

<i>RTECS Number</i>	Component A: NA Component B: NA Component C: NA Component D: NA Component E: NA Component F: MW4025000 Component G: NA
<i>Toxicity</i>	Component F: LD50 Oral=700 mg/kg (rat), LD50 Dermal=5010 mg/kg (rabbit), LC50 inhalation=3124 ppm (Rat) 1 hour
<i>Health Hazards</i>	3
<i>Potential Hazards</i>	Potential Health Effects Component F: Inhalation May be harmful if inhaled. May cause respiratory tract

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	<p>irritation. Skin May cause skin irritation. May be harmful if absorbed through skin. Eyes will cause eye irritation. Ingestion May be harmful if swallowed. Target Organs N/A</p>
<i>Carcinogenicity:</i>	No data available
<i>OSHA Permissible Exposure Limit(PEL) Data</i>	No data available
<i>ACGIH Threshold Limit Values (TLV)</i>	No data available
<u>12. Ecological Information:</u>	
Do not empty into drains.	
<u>13. Disposal Considerations</u>	
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.	
<u>14. Transport Information:</u>	
<i>UN Number</i>	3316
<i>Hazard Class</i>	9
<i>Packing Group</i>	III
<i>Proper Shipping Name (DOT)</i>	Chemical Kit

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15. Regulatory information						
<i>California Proposition 65:</i>		N/A				
US TSCA (Toxic Substance Control Act):		Component A: Not Listed Component B: Not Listed Component C: Not Listed Component D: Not Listed Component E: Not listed Component F: Listed Component G: Not listed				
<i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i>		Component A : Not Listed Component B : Not Listed Component C : Not Listed Component D : Not Listed Component E: Not listed Component F: 231-595-7 Component G: Not Listed				
US SARA Title III		Component A, B, C, D, E, and G SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Hazards: N/A Component F SARA 302 components: N/A SARA 313 components: N/A SARA 311/312 Acute Health Hazard, Chronic Health Hazard				
US Clean Air Act:		Component A, B, C, D, E F, G <i>Listed under Hazardous Air Pollutants: Not listed</i> <i>Listed under Class 1 Ozone Depletors: Not listed</i> <i>Listed under Class 2 Ozone Depletors: Not listed</i>				
<i>US Clean Water Act:</i>		Components A, B, C, D, E, and G Listed under "Hazardous Substances": Not listed <i>Listed under "Priority Pollutants": Not listed</i> Listed under "Toxic Pollutants": Not listed CWA 5000 lb				
US States: Right-to-Know: Listed in the following States:						
Component A:	Component B:	Component C:	Component D:	Component E:	Component F:	Component G:
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

European/International Regulations:

	Component A:	Component B:	Component C:	Component D:	Component E:	Component F:	Component G:
EC EINICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>EC Risk statements</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>WGK</i>	N/A	N/A	N/A	N/A	N/A	N/A	<i>N/A</i>
<i>Canada-DSL/NDSL</i>	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
<i>Canada-WHMIS classification</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Canada-Canadian Ingredient Disclosure List</i>	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.

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