

Safety Data Sheet (SDS)

<i>Revision Number:</i> 3.0	<i>Last updated</i> March 12, 2021
<u>1. Product and Company Identification</u>	
<i>Product Name:</i>	0.5M HBTU/HOBT in DMF
<i>Manufacturer/Supplier:</i>	<p>AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com</p> <p>Kaneka Eurogentec SA, Rue du Bois Saint Jean 5 4102 Seraing Belgium Tel. +32-4-3727400 Fax. +32-4-3727500 E-mail info@eurogentec.com</p> <p>Kaneka Eurogentec Helpdesk Tel. +32-4-3727665</p>
<i>Catalog Number</i>	AS-27217
<u>2. Hazards Identification</u>	
<p><i>Emergency Overview:</i> We do recommend handling all chemicals with caution. Use proper protective equipment when handling chemicals. To our knowledge, the hazards of this material have not been thoroughly investigated.</p> <p><i>GHS Hazard Classification:</i></p> <p>Flammable liquids (Category 3) Acute toxicity, Oral (Category 5) Acute toxicity, Inhalation (Category 3) Acute toxicity, Dermal (Category 4) Skin irritation (Category 3) Eye irritation (Category 2A) Reproductive toxicity (Category 1B)</p> <p><i>GHS Signal Words:</i> DANGER</p>	

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GHS Hazard Symbol/Pictogram:*GHS Hazard Statements:*

H226 Flammable liquid and vapour.
 H303 May be harmful if swallowed.
 H312 Harmful in contact with skin.
 H316 Causes mild skin irritation.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled. H360 May damage fertility or the unborn child

GHS Precautionary Statements:

P201 Obtain special instructions before use.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P280 Wear protective gloves/ protective clothing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P311 Call a POISON CENTER or doctor/ physician.

Potential Health Effects for:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: No information available

HMIS Classification

Health hazard: 2
Flammability: 2
Reactivity Hazard: 0

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NFPA Rating*Health hazard: 3**Fire: 3**Reactivity Hazard: 1***3. Composition / Information on Ingredients***Ingredients/Components:*

Chemical Name	CAS Number	Concentration
N – Hydroxybenzotriazole Hydrate	123333-53-9	3% in one bottle
N,N-Dimethylformamide	68-12-2	97% in one bottle
2-(1H-Benzotriazole-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate	94790-37-1	3% in one bottle

4. First Aid Measures

<i>Inhalation:</i>	If inhaled, move to fresh air. If not breathing, give artificial respiration.
<i>Ingestion:</i>	If swallowed, wash mouth with water if the person is conscious. Call a physician.
<i>Skin:</i>	In case of skin contact, flush with plenty amount of water at least 15 minutes.
<i>Eyes:</i>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician

5. Fire Fighting Measures

<i>Conditions of flammability:</i>	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
<i>Hazardous combustion products:</i>	Hazardous decomposition products formed under fire conditions. - Carbon oxides,nitrogen oxides (NOx)
<i>Special firefighting procedures:</i>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes
<i>Unusual fire and explosions hazards:</i>	Emits toxic fumes under fire conditions

6. Accidental Release Measures

<i>Spill response</i>	Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labeled container for waste disposal
<i>Containment</i>	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils.

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	<p>Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Use good occupational work practice. Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source. Do NOT cut, drill, grind or weld such containers</p>
<i>PPE</i>	Use personal protective equipment
<u>7. Handling and Storage</u>	
<p>Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas.</p>	
<u>8. Exposure Controls / Personal Protection</u>	
<i>Engineering controls</i>	<p>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction. Exhaust ventilation should be designed to prevent accumulation and re-circulation of particulates in the workplace. If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to efficiently remove the contaminant.</p>
<i>PPE</i>	<p>Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p>

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	<p>Eye protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p> <p>Skin and body protection Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p>Hygiene measures Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product</p>
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9. Physical and Chemical Properties

<i>Physical State</i>	liquid
<i>Odour</i>	Not available
<i>Solubility in Water</i>	Not available
<i>Specific Gravity</i>	Not available
<i>pH</i>	Not available
<i>Boiling Point</i>	N/A
<i>Melting Point</i>	Not available
<i>Flash Point</i>	N/A
<i>Vapor Pressure:</i>	N/A
<i>Vapor Density:</i>	N/A

10. Stability and Reactivity

<i>Thermal Decomposition</i>	No data available
<i>Dangerous Products of Decomposition</i>	No data available
<i>Dangerous Reactions</i>	COx, NOx when burned

Keep container tightly closed in a dry well-ventilated place. Store in 4°C refrigerator.

11. Toxicological Information

<i>RTECS Number</i>	N/A
<i>Toxicity</i>	No information available.
<i>Health Hazards</i>	Although ingestion is not thought to produce harmful effects, the material may still be damaging to the health of the individual following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
<i>Potential Hazards</i>	Not available
<i>Carcinogenicity:</i>	No significant acute toxicological data identified
<i>OSHA Permissible Exposure Limit(PEL) Data</i>	N/A
<i>ACGIH Threshold Limit Values (TLV)</i>	N/A

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Reproductive Toxicity: No information available

12. Ecological Information

No information available.

13. Disposal Considerations

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

14. Transport Information

<i>Hazard Class</i>	3
<i>Identification Number</i>	UN number 2265
<i>Packing Group</i>	III
<i>Proper Shipping Name (DOT)</i>	N,N-Dimethylformamide mixture

15. Regulatory Information

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

OSHA Hazards

Combustible Liquid, Harmful by skin absorption., Irritant, Teratogen

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

N,N-Dimethylformamide CAS-No.: 68-12-2 Revision Date: 2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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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