**Material Safety Data Sheet (MSDS)** 

Revision Number: <b>1.0</b>		Last updated Jul 2014
1. Product and Company Ider	tification	
Product Name:	HiLyte Fluor TM 532 hydrazide	
Manufacturer/Supplier:	AnaSpec, Inc.  www.anaspec.com  34801 Campus Drive  Fremont, CA 94555  Tel: 510-791-9560  Fax: 510-791-9572  Email: service@anaspec.com	
Catalog Number	89343	
Unit Size	1mg	

### 2. Hazards Identification

*Emergency Overview:* 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.

GHS Hazard Classification:

GHS Physical Hazards

GHS Health and Environmental Hazards

GHS Signal Words: None

GHS Hazard Statements: H303,H313, Maybe harmful if swallowed or in contact with skin.

GHS Precautionary Statements: P302, P340 May be respiratory irritant if inhaled. May cause respiratory tract

irritation.

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

3. Composition	<u>on</u>	
Ingredients/C	omponents:	
Chemical N	HiLyte Fluor TM 532 hydrazide  Molecular weight: 792.37  CAS-No N/A  EC-No N/A	
4. First Aid 1	Measures	
Inhalation:	If dust is inhaled, remove from contaminated area.  Encourage patient to blow nose to ensure clear passage of breathing.  If irritation or discomfort persists seek medical attention.	
Ingestion:	If swallowed do <b>NOT</b> induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortable drink.  Seek medical advice.	
Skin:	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.	
Eyes:	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention.	

Clean up Avoid co Control Use dry Place in  Containment  Avoid al Wear pr Use in a DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide  Alert Emergency Responders and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.  DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.  Emits toxic fumes under fire conditions
Unusual fire and explosions hazards:  6. Accidental Release Measures  Spill response  Remove Clean up Avoid co Control Use dry Place in Avoid al Wear pr Use in a DO NO' Avoid co When ha Keep co Avoid p Always	Dry chemical powder. BCF (where regulations permit). Carbon dioxide  Alert Emergency Responders and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area.  DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.  Emits toxic fumes under fire conditions
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Avoid control Use dry Place in  Containment Avoid al Wear pr Use in a DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	all ignition sources.
Control Use dry Place in Containment Avoid al Wear pr Use in a DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	all spills immediately.
Use dry Place in Avoid al Wear prouse in a DO NO' DO NO' Avoid con When has Keep con Avoid possible and the Always.	ontact with skin and eyes.
Place in  Containment  Avoid al  Wear pr Use in a DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	personal contact by using protective equipment.
Containment  Avoid al Wear pr Use in a DO NO DO NO Avoid co When ha Keep co Avoid p Always	clean up procedures and avoid generating dust.
Wear pr Use in a DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	a suitable, labeled container for waste disposal
Use in a DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	l personal contact, including inhalation.
DO NO' DO NO' Avoid co When ha Keep co Avoid p Always	otective clothing when risk of exposure occurs.
DO NO' Avoid co When ha Keep co Avoid p Always	well-ventilated area.
Avoid co When ha Keep co Avoid p Always	Γ enter confined spaces until atmosphere has been checked.
When ha Keep co Avoid p Always	Γ allow material to contact humans, exposed food or food utensils.
Keep co Avoid p Always	ontact with incompatible materials.
Avoid p Always	andling, DO NOT eat, drink or smoke.
Always	ntainers securely sealed when not in use.
	hysical damage to containers.
Use goo	wash hands with soap and water after handling.
	d occupational work practice.
	ontainers may contain residual dust which has the potential to accumulate
	g settling. Such dusts may explode in the presence of an appropriate
ignition	
Do NOT	cut, drill, grind or weld such containers
PPE Use pers	onal protective equipment
1 F	onai protective equipment
	onal protective equipment

8. Exposure Controls	/ Personal Protection	
Engineering controls	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	
PPE	remove the contaminant.  Use personal protective equipment	
9. Physical and Chem Physical State	ical Properties   solid	
Odour	Not available	
Solubility in Water	Water and DMF soluble	
Specific Gravity	Not available	
pH	Not available	
Boiling Point	Not available	
Melting Point	Not available	
Flash Point	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
10. Stability and Read	<u>ctivity</u>	
Thermal Decomposition	n No data available	
Dangerous Products of	Decomposition No data available	
Dangerous Reactions	COx, NOx when burned	
Keep container tightly and kept upright. Store	closed in a dry well-ventilated place. Containers which are opened must be carefully reseale in -20°C refrigerator.	
11. Toxicological Info	ormation_	
RTECS Number	N/A	

**Toxicity** 

No information available.

Health Hazards	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.
Potential Hazards	Not available
Carcinogenicity:	No significant acute toxicological data identified
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	N/A

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

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Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

## 15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): N/A

US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A

US SARA Title III (Superfund Amendments and Reauthorization Act: N/A

US Other: N/A

EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A

EC Risk Statements: N/A

Other Country Regulations: N/A

### 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.