Safety Data Sheet (SDS)

Revision Number: 3.0		Last updated March 26, 20	
1. Product and Company Ider	ntification_		
Product Name:	TMRE [tetr	TMRE [tetramethylrhodamine, ethyl ester, perchlorate]	
Manufacturer/Supplier:	AnaSpec, Inc.		
	www.anaspec.com		
	34801 Campus Drive		
	Fremont, CA 94555		
	Tel: 510-791-9560		
	Fax: 510-79	1-9572	
	Email: service@anaspec.com		
Catalog Number	AS-88061	AS-88061	
Unit Size	25mg		

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 0

GHS Health and Environmental Hazards 2

GHS Signal Words: Warning

GHS Hazard Statements: H302+ H332 Harmful if swallowed or inhaled

H315 Causes skin irritationH319 Causes serious eye irritation

GHS Precautionary Statements: P305, P351, P338 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

Ingredients/Components:

Chemical Name: TMRE [tetramethylrhodamine, ethyl ester, perchlorate]

Molecular formula: C₂₆H₂₇ClN₂O₇

Molecular weight: 515.0 CAS-No 115532-52-0

EC-No N/A

4. First Aid 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 NOT 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 comfortably
	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.

	<u>ures</u>		
Extinguishing media:		Water spray or fog.	
		Alcohol resistant foam.	
		Dry chemical powder.	
		BCF (where regulations permit).	
		Carbon dioxide	
Special firefighting pro	cedures:	Alert Emergency Responders and tell them location and nature of	
special file of small procedures.		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.	
	l'	If safe to do so, remove containers from path of fire.	
		Equipment should be thoroughly decontaminated after use.	
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Unusual fire and explos	sions hazards:	Emits toxic fumes under fire conditions	
6. Accidental Release	<u>Measures</u>		
Spill response		gnition sources.	
		spills immediately.	
		et with skin and eyes.	
		onal contact by using protective equipment.	
		n up procedures and avoid generating dust.	
		itable, labeled container for waste disposal	
Containment	-	rsonal contact, including inhalation.	
		tive clothing when risk of exposure occurs.	
		l-ventilated area.	
		ter confined spaces until atmosphere has been checked.	
	DO NOT all	ow material to contact humans, exposed food or food utensils.	
		ct with incompatible materials.	
		ng, DO NOT eat, drink or smoke.	
		ners securely sealed when not in use.	
		cal damage to containers.	
		n hands with soap and water after handling.	
		Use good occupational work practice.	
		iners may contain residual dust which has the potential to accumulate	
		ttling. Such dusts may explode in the presence of an appropriate	
	ignition sour		
	_	, drill, grind or weld such containers	
	_	, drill, grind or weld such containers	
PPE	Do NOT cut	protective equipment	
PPE	Do NOT cut		

8. Exposure Controls	/ Personal Protection	on
Engineering controls	Local exhaust ven even when particu mutual friction. Exhaust ventilation particulates in the If in spite of local respiratory protect (a): particle dust re (b): filter respirato (c): fresh-air hood Build-up of electrogrounding. Powder handling e additional protecti Air contaminants	tilation is required where solids are handled as powders or crystals; dates are relatively large, a certain proportion will be powdered by an should be designed to prevent accumulation and re-circulation of workplace. exhaust an adverse concentration of the substance in air could occur, tion should be considered. Such protection might consist of: espirators, if necessary, combined with an absorption cartridge; ors with absorption cartridge or canister of the right type; as or masks ostatic charge on the dust particle, may be prevented by bonding and equipment such as dust collectors, dryers and mills may require from measures such as explosion venting. generated in the workplace possess varying "escape" velocities which, the "capture velocities" of fresh circulating air required to efficiently
PPE	Use personal prote	
9. Physical and Chem Physical State	ical Properties Solid	
Odour State	Not available	
Solubility in Water	Slightly water	soluble
Specific Gravity	Not available	
pН	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 Rea	<u>ctivity</u>	
Thermal Decompositio	n	No data available
Dangerous Products of	f Decomposition	No data available
Dangerous Reactions		COx, NOx when burned
Keep container tightly and kept upright. Store		ventilated place. Containers which are opened must be carefully resealed.
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
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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

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.