# Safety Data Sheet (SDS)

Revision Number: 3.0		Last updated <b>March 26, 20</b> 2	
1. Product and Company Iden	ntification		
Product Name:	TMRM		
	[Tetramethylri	hodamine, methyl ester, perchlorate]	
Manufacturer/Supplier:	AnaSpec, In	ic.	
	www.anaspec.com		
	34801 Campus Drive		
	Fremont, CA 94555		
	Tel: 510-791-9560		
	Fax: 510-791-9572		
	Email: <a href="mailto:service@anaspec.com">service@anaspec.com</a>		
Catalog Number	AS-88065	AS-88065	
Unit Size	25mg		

#### 2. Hazards Identification

*Emergency Overview: Irritant.* 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: Not a hazardous substance or mixture. GHS Physical Hazards: Not a hazardous substance or mixture.

GHS Health and Environmental Hazards: Not a hazardous substance or mixture.

GHS Signal Words: N/A

GHS Hazard Statements: N/A

GHS Precautionary Statements: N/A

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: TMRM; [Tetramethylrhodamine, methyl ester, perchlorate]

Molecular Formula:  $C_{25}H_{25}ClN_2O_7$ 

Molecular weight: 500.9 CAS-No 115532-50-8

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 <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 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.			

Extinguishing media:		Water spray or fog.
		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
		Carbon dioxide
Special firefighting procedures:		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.
		<b>DO NOT</b> 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.
Unusual fire and explo	sions hazards:	Emits toxic fumes under fire conditions
		[+ +2
	Remove all	ignition sources.
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	Remove all Clean up al Avoid cont	Il spills immediately. act with skin and eyes.
<b>6. Accidental Release</b> Spill response	Remove all Clean up al Avoid cont Control per	Il spills immediately. act with skin and eyes. rsonal contact by using protective equipment.
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Spill response	Remove all Clean up al Avoid cont Control per Use dry cle Place in a s	Il spills immediately.  act with skin and eyes.  rsonal contact by using protective equipment.  can up procedures and avoid generating dust.  uitable, labeled container for waste disposal
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8. Exposure Controls	/ Personal Protection	<u>on</u>	
Engineering controls	even when particumutual 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 eadditional protection Air contaminants	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	Use personal prote		
9. Physical and Chem Physical State	ical Properties  Dark green sol	i.a	
Odour	Not available	iu	
Solubility in Water	DMSO		
Specific Gravity	Not available		
рН	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			
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		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

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: This product does not contain chemicals listed under Proposition 65.

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.