Safety Data Sheet (SDS)

Revision Number: 1.1	Last updated: April 2015
1. Product and Company	Identification
Product Name:	SensoLyte® OPA Protein Quantitation Kit
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	AS-71015
Unit Size	1 kit
2. Hazards Identification	
Emergency Overview: GHS Hazard Classification GHS Physical Hazards	::
7	ponent A: Corrosive
Com	ponent B: Corrosive(Category 1B)
Com	ponent C: Reproductive toxicity (Category 1B)
Com	ponent D: Not Applicable
GHS Health and Environm	ental Hazards
Com	ponent A: Toxic by ingestion, Skin sensitizer, Corrosive
Com	ponent B: Skin corrosion, Serious eye damage
	ponent C: Irritant to eyes and skin, Reproductive toxicity, target organs- testes
Com	ponent D: Not Applicable
GHS Signal Words:	
Com	ponent A: Danger
Com	ponent B: Danger
Com	ponent C: Danger
Com	ponent D: Warning
GHS Hazard Statements:	
Com	ponent A: H301 Toxic if swallowed.
	H313 May be harmful in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H317 May cause an allergic skin reaction.
	H400 Very toxic to aquatic life.
Com	ponent B: H301 Toxic if swallowed.
	H314 Causes severe skin burns and eye damage.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Component C: H360 May damage fertility or the unborn child.

Component D: H302 Harmful if swallowed.

GHS Precautionary Statements:

Component A: P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor

Component B: P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Component C: P201 Obtain special instructions before use.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Component D: P280 Wear Eye Protection

HMIS Classification:

Component A:	Component B:	Component C:	Component D:
Health hazard: 3	Health hazard: 3	Health hazard: 2	Health hazard: 1
Flammability: 1	Flammability: 1	Flammability: 0	Flammability: 0
Physical hazards: 0	Physical hazards: 0	Physical hazards: 0	Physical hazards: 0

NFPA Rating:

Component A:	Component B:	Component C:	Component D:
Health hazard: 3	Health hazard: 3	Health hazard: 2	Health hazard: 0
Fire: 1	Fire: 1	Fire: 0	Fire: 0
Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0	Reactivity hazard: 0

3. Composition / Information on Ingredients

Ingredients/Components:

ins, components.			
Chemical Name:	Description	CAS Number:	
Component A	Contains OPA	643-79-8	
Component B	Proprietary	NA	
Component C	Proprietary	NA	
Component D	Contains BSA	NA	

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Component A

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. Take

victim immediately to hospital. 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 B

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Take victim immediately to hospital. 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.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

Component C

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Flush eyes with water as a precaution.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Component D

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a

physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Skin: 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.

5. Fire Fighting Measures

Extinguishing media:	Component A: Not flammable or combustible.		
	Component B: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide		
	Component C: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
	Component D: Not applicable		
Special firefighting procedures:	Wear self-contained breathing apparatus for firefighting if necessary.		
Unusual fire and explosions hazards:	Component A: Hazardous decomposition products formed under fire conditions Carbon oxides		
	Component B: Hazardous decomposition products formed under fire conditions Carbon oxides, Sulphur oxides		
	Component C: Avoid breathing dust. Combustible liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back.		
	Vapors can spread along the ground and collect in low or confined areas. Hazardous decomposition products formed under fire conditions		
	Borane/boron oxides Component B:None		

6. Accidental Release Measures

Containment and spill	Component A:
response	Personal precautions
	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing
	dust.
	Environmental precautions
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	Discharge into the environment must be avoided.
	Component B: Wear respiratory protection. Avoid breathing vapors, mist or gas.
	Ensure adequate ventilation. Evacuate personnel to safe areas.
	Component C: Soak up with inert absorbent material and dispose of as hazardous
	waste. Keep in suitable, closed containers for disposal.
	Component D: Not applicable.
PPE	Gloves, safety goggles, complete suit protecting against chemicals,

7. Handling and Storage

Component A

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Light sensitive. Moisture sensitive. Keep in a dry place.

Component B

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection.

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.

Store under inert gas

Component C:

Handling: Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection

workplace.

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.

Component D: Not applicable

Component D: No	
	rols / Personal Protection
Engineering controls	Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.
PPE	Component A Skin and Body: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Hands: Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves. Eye: 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).
	Component B Respiratory System: 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.
	Skin and Body: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
	<i>Hands:</i> 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.
	Eyes: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	Component C: Respiratory System: 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

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tested and approved under appropriate government standards such as NIOSH (US) or CEN

Skin and Body: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

protection test (US) or EN 16	classes with side-shields conforming to EN166 Use equipment for eye ed and approved under appropriate government standards such as NIOSH 66(EU). 2: Not applicable
9. Physical and Chemical Propert	<u>ies</u>
Physical State	Liquid
Odo	Not determined
Solubility in Water	Soluble
Specific Gravity	Not determined
рН	Component C:pH-9.5
Boiling Point	Component B: 110 - 111 °C (230 - 232 °F) at 20 hPa (15 mmHg) - lit.
Melting Point	Component B: Melting point/range: 15 - 18 °C (59 - 64 °F) - lit.
Flash Point	Component B:93.4 °C (200.1 °F) - closed cup
Vapor Pressure:	Not determined
Vapor Density:	Not determined
10.Stability and Reactivity	
Thermal Decomposition	Components: Stable under recommended storage conditions.
Dangerous Products of Decomposition	Component A: Hazardous decomposition products formed under fire conditions Carbon oxides Component B: Hazardous decomposition products formed under fire conditions Carbon oxides, Sulphur oxides Other decomposition products - no data available Component C - Borane/boron oxides Other decomposition products - no data available Component D: NA
Dangerous Reactions	Not Applicable
11.Toxicological Information	
RTECS Number	Component A:For OPA, TH6950000
	Other components: Not Applicable
Toxicity	Component A Acute toxicity Oral LD50 LD50 Oral - rat - 178 mg/kgSigma-Aldrich - P0657 Page 5 of 7 Inhalation LC50 no data available Dermal LD50 LD50 Dermal - rat - > 2,000 mg/kg Other information on acute toxicity

no data available
Skin corrosion/irritation
Skin - rabbit - Corrosive - OECD Test Guideline 4
Other components: No data available

Health Hazard:

Component A, B and C:

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes

and upper respiratory tract. *Ingestion:* Toxic if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Component D: Not Applicable

Component 21 tot rippineusie			
Potential Hazards	Components A, B and C		
	Inhalation: May be harmful if inhaled. Material is extremely destructive		
	to the tissue of the mucous membranes and upper respiratory tract.		
	Skin: May be harmful if absorbed through skin. Causes skin burns.		
	Eyes: Causes eye burns.		
	Ingestion: Toxic if swallowed.		
	Component D:Not Applicable		
Carcinogenicity:	None		
OSHA Permissible Exposure Limit(PEL)	No data available		
Data			
ACGIH Threshold Limit Values (TLV)	No data available		

12. Ecological Information

Component A:

Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.072 mg/l - 96.0 h

Toxicity to daphnia

and other aquatic

invertebrates

EC50 - Daphnia magna (Water flea) - 0.087 mg/l - 48 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

Other Components: No data available

13. Disposal Considerations

All Components

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Dispose of us unused product.		
14. Transport Information:		
UN Number	3316	
Hazard Class	9	
Identification Number	N/A	
Packing Group	II	
Proper Shipping Name (DOT)	Chemical Kit	

California Proposition 65	ī:	,	None			
US TSCA (Toxic Substance Control Act):			Component A: Listed			
			Component B : Listed			
			Component C: Listed			
			Component D : Not listed			
US CERCLA (Comprehen			Component A: Listed			
Compensation, and Liabi	lity Act:		Component B: Listed			
			Component C : Not Listed			
			Component D : Not listed			
JS SARA Title III			Component A			
			SARA 302 components: N/A			
			SARA 313 components: N/A		_	
			SARA 311/312 Hazards: Ch	nronic Health Hazard	1	
			Component B	À		
			SARA 302 components: N/A			
			SARA 313 components: N/A			
			SARA 311/312 Hazards: Ac	cute Health Hazard		
			Component C SARA 302 components: N/A	٨		
			SARA 302 components: N/A			
			SARA 313 components. 1972 SARA 311/312 Hazards: Cl		4	
			Component D	mome Health Hazart	1	
			SARA 302 components: N/A			
			SARA 302 components: N/A SARA 313 components: N/A			
			SARA 311/312 Hazards: N/A			
			orinary in a real and a real and a real			
US Clean Air Act:			Component A, B, C, D and	E		
			Listed under Hazardous Air		ed	
			Listed under Class 1 Ozone			
			Listed under Class 2 Ozone			
				· · · · · · · · · · · · · · · · · · ·		
US Clean Water Act:						
			Components A, B, C, and D)		
]1	Listed under "Hazardous Subst	ances": Not listed		
			Listed under "Priority Pollutants": Not listed			
		[1	Listed under "Toxic Pollutants": Not listed			
US States: Right-to-Kno	w: Listed in the fo	llowing States:				
Component A:	Component		Component C:	Component D:		
Pennsylvania	Pennsylvania	ı	Pennsylvania			
Revision Date	Revision Da		Revision Date 2009-07-17	7 N/A		
New Jersey	New Jersey		New Jersey			
Revision Date	Revision Da	te	Revision Date 2009-07-17	7 N/A		
European/International						
	Component A	Component 1	<u> </u>	Component D		
EC EINICS	210-935-8	203-537-0	233-139-2	N/A		
EC Risk statements	R52/53	R25/R34	R36/38	N/A		
WGK	2	3	1	N/A	1	

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Canada-	Listed	Listed	Listed	Not listed	
DSL/NDSL					
Canada-	D2A	B3	D2A	N/A	
WHMIS classification					
Canada-	Listed	Not Listed	Listed	Not Listed	
Canadian Ingredient					
Disclosure List					

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.