

**Product Name:** ReadiUse<sup>™</sup> Tyramide (TSA)/Styramide (PSA) Optimized Reaction Buffer

Catalog Number: 45090

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A:	N/A	N/A	Liquid	High
Component B:	7722-84-1	N/A	liquid	high



# Safety Data Sheet

#### Section 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers		
	Product name:	ReadiUse™ Tyramide (TSA)/Styramide (PSA) Optimized Reaction Buffe	
	Product number:	45090	
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses:	For research use only. Not intended for diagnostic or therapeutic use.	
1.3	Details of the supplier of the datasheet		
	Company:	AAT Bioquest, Inc.	
	Address:	5775 W Las Positas Blvd, Pleasanton, CA 94588	
	Telephone:	(408)-733-1055	
	Fax:	(408)-733-1304	
	Email:	info@aatbio.com	
1.4	Emergency telephone number		
	Chemtrec (Within USA):	1-(800)-424-9300	
	Chemtrec (Outside USA):	1-(703)-527-3887	
Sec	tion 2: Hazard identifications		
2.1	Classification of the substance or mixtu	re	
	Serious eye damage/eye irritation:	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)	
2.2	Label elements		
	Signal word:	Not applicable	
	Hazard statements:	None	
	Symbols/Pictograms:	None	
	Precautionary statements - prevention:	Wash hands thoroughly after handling	
	Precautionary statements - response:	IF exposed concerned: Get medical advice/attention	
	Precautionary statements - storage:	None	
	Precautionary statements - disposal:	None	
2.3	Hazards not otherwise classified (HNOC)	) or not covered by GHS	
	Hazards not otherwise classified (HNOC):	None	
2.4	Other information		
	Other hazards:	None	

#### 3.1 Substances Chemical name: ReadiUse<sup>™</sup> Tyramide (TSA)/Styramide (PSA) Optimized Reaction Buffer CAS No.: N/A Molecular weight: Formula: Section 4: First aid measures 4.1 First-aid measures General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on the skin, or on clothing. Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Skin contact: Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Inhalation: Remove to fresh air If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use a barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Ingestion: Do NOT induce vomiting. Rinse/clean mouth with water and drink plenty of water afterward. Never give anything by mouth to an unconscious person. Consult a physician. Self-protection of the first aider: Use personal protective equipment. 4.2 Most important symptoms and effects, both acute and delayed No information available. Symptoms: 4.3 Indication of any immediate medical attention and special treatment needed Note to physicians: Treat symptomatically. Section 5: Firefighting measures 5.1 Suitable extinguishing media Use extinguishing measures that are appropriate to local Suitable extinguishing media: circumstances and the surrounding environment. Unsuitable extinguishing media: No information available.

#### 5.2 Specific hazards arising from the chemical

	Specific hazards arising from the chemical:	•	on, do not breathe fumes. May cause contact. Thermal decomposition can toxic gases and vapors.
	Hazardous combustion products:	Carbon oxides, sulfur oxides	
5.3	Explosion data		
	Sensitivity to mechanical impact:	No information available.	
	Sensitivity to static discharge:	No information available.	
5.4	Protective equipment and precautions	s for firefighters	
	Protective equipment and precautions for firefighters:	As in any fire, wear self-contained l demand, MSHA/NIOSH (approved o gear.	
Sec	tion 6: Accidental release measur	es	
6.1	Personal precautions, protective equip	ment, and emergency procedures	
	Personal precautions:	Use personal protective equipment and upwind of spill/leak. Evacuate p	t as required. Keep people away from personnel to safe areas.
6.2	Environmental precautions		
	Environmental precautions:	Prevent further leakage or spillage from entering drains. Do not flush i system. See Section 12 for additior	into surface water or sanitary sewer
6.3	Methods and material for containmen	t and cleaning up	
	Methods for containment:	Prevent further leakage or spillage with a plastic sheet or tarp to minir liquid spill for later disposal.	if safe to do so. Cover powder spill nize spreading. Dike far ahead of
	Methods for cleaning up:	a plastic sheet or tarp to minimize Take up mechanically, placing in ap Avoid creating dust. Clean contami	nated surfaces thoroughly. Soak up n up. Pick up and transfer to properly shovel into suitable containers for v traces with water. Take
Sec	tion 7: Handling and storage		
7.1	Precautions for safe handling		
	Advice on safe handling:	Avoid contact with skin, eyes, or clo equipment as required. Wash conta not breathe dust/fume/gas/mist/va smoke when using this product. Us	aminated clothing before reuse. Do pors/spray. Do not eat, drink or
7.2	Conditions for safe storage, including a	ny incompatibilities	
	Storage conditions:	Keep the container tightly closed in out of the reach of children. Keep c well-ventilated place. Keep in prope explosive peroxides.	
	Incompatible materials:	None known based on information	supplied.
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# 8.1 Control parameters

control parameters		
Exposure guidelines:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.	
Appropriate engineering controls		
Engineering controls:	Showers, eyewash stations, ventilation systems	
8.3 Individual protection measures, such as personal protective equipment		
Eye/face protection:	Tight sealing safety goggles. Face protection shield.	
Skin and body protection:	Wear protective gloves and protective clothing.	
Respiratory protection:	If exposure limits are exceeded, or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive- pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.	
General hygiene considerations:	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area, and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Keep away from food, drink, and animal feeding stuff.	
	Exposure guidelines: Appropriate engineering controls Engineering controls: Individual protection measures, such as per Eye/face protection: Skin and body protection: Respiratory protection:	

## Section 9: Physical and chemical properties

Physical state:	Liquid
Solubility in water:	High
Appearance:	No information available
Odor/odor threshold:	No information available
pH:	No information available
Melting point/freezing point:	No information available
Boiling point:	No information available
Flashpoint:	No information available
Liquid density:	No information available
Evaporation rate:	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific gravity:	No information available
Water solubility:	No information available
Solubility in other solvents:	No information available
Partition coefficient:	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available

Explosive properties:	No information available
Oxidizing properties:	No information available
ection 10: Stability and reactivity	
Reactivity:	No data available
Chemical stability:	May form explosive peroxides
Possibility of hazardous reactions:	None under normal processing
Hazardous polymerization:	No information available
Conditions to avoid:	Extremes of temperatures and direct sunlight
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides
section 11: Toxicological informatio	n
1.1 Information on likely routes of expos	ure
Inhalation:	No data available
Eye contact:	No data available
Skin contact:	No data available
Ingestion:	No data available
1.2 Information on toxicological effects	
Symptoms:	No information available
1 3 Delayed and immediate effects as we	ll as chronic effects from short and long-term exposure
Chronic toxicity:	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
1.4 Numerical measures of toxicity - prod	duct information
Unknown acute toxicity:	No information available
Section 12: Ecological information	
Ecotoxicity:	May cause long-lasting harmful effects to aquatic life.
Persistence and degradability:	No information available
Bioaccumulation:	No information available
Mobility:	No information available
Section 13: Disposal consideration	
Disposal of wastes:	Dispession should be in accordance with explicible regional metional on
	local laws and regulations.
Contaminated packaging:	
Contaminated packaging: Other information:	-
	local laws and regulations. Do not reuse container Waste codes should be assigned by the user based on the application
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## Section 15: Regulatory information

15.1 International Inventories	
US Toxic Substances Control Act (TSCA):	Not listed
Canada (DSL/NDSL):	Not listed
Europe (EINECS/ELINCS/NLP):	Not listed
Australia (AICS):	Not listed
South Korea (KECL):	Not listed
China (IECSC):	Not listed
Japan (ENCS):	Not listed
Phillipines (PICCS):	Not listed
15.2 US Federal Regulations	
SARA 313:	Not listed
SARA 311/312 components:	Not listed
CWA (Clean Water Act):	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR122.21 and 40CFR 122.42).
15.3 US State Regulations	
California Proposition 65:	Not listed
Massachusetts-RTK:	Not listed
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Not listed
U.S. State Right-To-Know Regulations:	This product does not contain any substances regulated by state right- to-know regulations.

### Section 16: Other information

#### 16.1 HMIS

Health hazards:	-
Flammability:	-
Reactivity:	-
Personal protection:	-
16.2 NFPA	
Health hazards:	-
Flammability:	-
Stability:	-
Physical and chemical properties:	-