

Safety Data Sheet

OSHA format Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product name	Digestion Reagent Powder
Other means of identification	
Product Code(s)	4036
UN-No	1492
Recommended use of the chemic	cal and restrictions on use_
Recommended Use	Laboratory chemicals. Industrial (not for food or food contact use). Use as a laboratory
	reagent.
Details of the supplier of the safe	ty data sheet
	Manufacturer Address
	LaMotte Company, Inc.
	802 Washington Avenue
	P.O. Box 329
	Chestertown, MD 21620 USA
	T 410-778-3100
	F 410-778-9748
Emergency telephone numbers	

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Physical hazards Oxidizing Solids.	Category 1

EMERGENCY OVERVIEW

DANGER

Hazard statements

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause fire or explosion; strong oxidizer.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Storage:

Keep container tightly closed and in a well-ventilated place. Store locked up.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No.	Weight-%
Potassium persulfate	7727-21-1	100

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin, or on clothing.	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Excess acid on skin can be neutralized with a 2% solution of sodium bicarbonate in water. Call a physician immediately.	
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. Call a physician immediately.	
Ingestion	Do NOT induce vomiting. Call a physician immediately. Clean mouth with water. Never give anything by mouth to an unconscious person.	
Self-protection of the first aider	Use personal protection recommended in Section 8. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.	
5. FIREFIGHTING MEASURES		

Suitable extinguishing media

Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dike fire-control water for later disposal.

Hazardous combustion products

Contact with metals may evolve flammable hydrogen gas.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures			
Personal precautions	Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. See section 8.		
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for conta	nment and cleaning up		
Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).		
Methods for cleaning up	Avoid dust formation. Clean up spill in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Keep in suitable and closed containers for disposal.		

7. HANDLING AND STORAGE

Precautions for safe handling

Handling See section 8. Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Separate from

incompatibles, combustibles, organic or other readily oxidizable materials. Keep away from heat, moisture, and incompatibles. Keep out of the reach of children.

Incompatible Products

Organic material. Finely powdered metals. Halogens. Acids. Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium persulfate	TWA: 0.1 mg/m ³ persulfate	*-	Not Established
7727-21-1	- ·		

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	powder White	Odor	Odorless
Property	<u>Values</u>	Remarks • Method	
pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	4 100 °C No information available Not Applicable No information available No information available No information available 9.3 No information available Miscible with water No information available No information available	(as 10% solution) (air=1)	
Oxidizing properties	No information available		

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Stability	UNSTABLE. Gradually decomposes losing oxygen. Decomposes more rapidly at higher temperature.
Hazardous Reactions	Substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Contact with oxidizable substances may cause extremely violent combustion.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.
Incompatible materials	Organic material. Finely powdered metals. Halogens. Acids. Alkalis.

Hazardous decomposition products Sulfur oxides (SOx). and the contained metal. Oxygen is released.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Potassium persulfate	= 802 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	Not Established
7727-21-1		· · ·	

Information on toxicological effects

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Chemical name	ACGIH	IARC	NTP	OSHA	
Potassium persulfate	Not Established	Not Established	Not Established	Not Established	
7727-21-1					
Target organ effects	Skin.			•	
Other adverse effects	Inhalation of	Inhalation of vapor can cause pulmonary edema.			
ATEmix (oral) ATEmix (dermal)	802.00 mg/kg 10,000.00 mg/kg				

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Potassium persulfate	Not Established	Not Established	Not Established
7727-21-1			

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Potassium persulfate	Not Established
7727-21-1	

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/containers in accordance with local regulations.

Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium persulfate 7727-21-1	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Potassium persulfate	*_
7727-21-1	

14. TRANSPORT INFORMATION

DOT Proper shipping name UN-No Hazard Class Packing group Reportable Quantity (RQ)	POTASSIUM PERSULFATE 1492 5.1 III 225lb	

IATA UN-No Hazard Class	1492 5.1
Packing group	111
IMDG/IMO UN-No Hazard Class Packing group	1492 5.1 III

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Potassium persulfate	Not Established
7727-21-1	
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Potassium persulfate	*_	Not Established	-
7727-21-1			

US State Regulations

This product does not contain any Proposition 65 chemicals.

Chemical name	California Proposition 65	
Potassium persulfate	Not Established	
7727-21-1		
IIS State Bight to Know Pogulations		

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium persulfate	Х	X	Х
7727-21-1			

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION						
NFPA	Health hazard 1	Flammability 0	Instability 1	Physical and Chemical Hazards OX		
Health hazard 1	Flammability 0	Stability 1				



Prepared by Issuing Date Disclaimer

Regulatory Affairs Department May-12-2015

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet