

SAFETY DATA SHEET

1. Identification

Safranin O Stain Solution

Revision Date 26-Jan-2019

AB ALLEY

POWERING SCIENCE ww.laballev.co

Product Name

Cat No. : C4196 **Synonyms** Gram Stain #4 **Recommended Use** Laboratory chemicals. Uses advised against No Information available Details of the supplier of the safety data sheet Lab Alley LLC **Emergency Telephone Number** 22111 Highway 71 West, Suite 601 InfoTrac: 800-535-5053 Spicewood, Texas 78669 Tel.: 512-668-9918 2. Hazard(s) identification Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Flammable liquids Category 3 Specific target organ toxicity (single exposure) Category 1 Label Elements Signal Word Danger **Hazard Statements** Flammable liquid and vapor Causes damage to organs



Precautionary Statements Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Revision Number 1

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Response IF exposed: Call a POISON CENTER or doctor/physician Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

Other hazards

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. **Unknown Acute Toxicity**

.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Isopropyl alcohol	67-63-0	1.0
Ethyl alcohol	64-17-5	17 - 20
Methyl alcohol	67-56-1	1.0
Water	7732-18-5	78 - 82
Phenazinium, 3,7-diamino-2,8-dimethyl-5-phenyl-, chloride	477-73-6	< 1.0

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.	
Inhalation	Move to fresh air.	
Ingestion	Do not induce vomiting.	
Most important symptoms/effects	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness,	
Notes to Physician	nausea and vomiting Treat symptomatically	
	5. Fire-fighting measures	
Unsuitable Extinguishing Media	No information available	
Flash Point Method -	°C No information available	
Autoignition Temperature Explosion Limits	No information available	

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 3 *	Flammability 3	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	on. Use personal protective equipment nal ecological information.	

Methods for Containment and Clean No information available. Up

7. H	landling and storage
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Handling

Ensure adequate ventilation.

Storage

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

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 980 mg/m ³ (Vacated) STEL: 500 ppm (Vacated) STEL: 1225 mg/m ³ TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Ethyl alcohol	STEL: 1000 ppm	(Vacated) TWA: 1000 ppm (Vacated) TWA: 1900 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m ³ (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m ³ Skin TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Isopropyl alcohol	TWA: 400 ppm TWA: 985 mg/m ³ STEL: 500 ppm STEL: 1230 mg/m ³	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	TWA: 200 ppm STEL: 400 ppm
Ethyl alcohol	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m³	STEL: 1000 ppm
Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm

S	VA: 262 mg/m ³ TWA: 260 mg/r TEL: 250 ppm STEL: 250 pp 'EL: 328 mg/m ³ STEL: 310 mg/ Skin	m Skin
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Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties		
Physical State	Liquid	
Appearance	Red	
Odor	pungent	
Odor Threshold	No information available	
рН		
Melting Point/Range	No data available	
Boiling Point/Range		
Flash Point	C	
Evaporation Rate	No information available	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Solubility	No information available	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	No information available	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions

11. Toxicological information

None under normal processing.

No information available

Acute Toxicity

Dral LD50 Dermal LD50 Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.		
Component Information Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5840 mg/kg (Rat)	13900 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat)4 h
Ethyl alcohol	7060 mg/kg (Rat)	Not listed	20000 ppm/10H (Rat)
Methyl alcohol	6200 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 22500 ppm (Rat) 8 h
Toxicologically Synergistic Products Delayed and immediate effects a	No information available	short and long-term exposure	e_
rritation	No information available		

Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico					
Isopropyl alcohol	67-63-0	Not listed	Not listed	Not listed	Not listed	Not listed					
Ethyl alcohol	64-17-5	Group 1	Not listed	A3	Х	Not listed					
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed					
Water	7732-18-5	Not listed Not listed Not listed Not listed Not listed									
Phenazinium, 3,7-diamino-2,8-dimet	477-73-6	Not listed	Not listed	Not listed	Not listed	Not listed					
hyl-5-phenyl-, chloride											
Mutagenic Effects		No information ava	ailable								
Reproductive Effects No information available.											
Developmental Effe	mental Effects No information available.										
Teratogenicity		No information available.									
	TOT - single exposure None known TOT - repeated exposure None known										
Aspiration hazard		No information ava	ailable								
Symptoms / effects delayed	,both acute and	nd Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting									
Endocrine Disruptor	r Information	No information available									
Other Adverse Effec	Other Adverse Effects The toxicological properties have not been fully investigated.										
		12. Ecol	ogical infor	mation	12. Ecological information						

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	1000 mg/L EC50 > 96 h 1000 mg/L EC50 > 72 h	1400000 μg/L LC50 96 h 11130 mg/L LC50 96 h 9640 mg/L LC50 96 h	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h
Ethyl alcohol	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	LC50 = 14200 mg/l/96h	Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h

Persistence and Degradability Bioaccumulation/ Accumulation

No information available No information available.

Mobility

No information available.

Component	log Pow
Isopropyl alcohol	0.05
Ethyl alcohol	-0.32
Methyl alcohol	-0.74

Waste Disposal Methods

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl alcohol - 67-56-1	U154	-

14. Transport information

DOT	
UN-No	UN1987
Proper Shipping Name	ALCOHOLS, N.O.S.
Hazard Class	3
Packing Group	III
TDG	
UN-No	UN1987
Proper Shipping Name	ALCOHOLS, N.O.S.
Hazard Class	3
Packing Group	III
IATA	
UN-No	UN1987
Proper Shipping Name	ALCOHOLS, N.O.S.
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN1987
Proper Shipping Name	ALCOHOLS, N.O.S.
Hazard Class	3
Packing Group	
	15 Regulatory

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Isopropyl alcohol	Х	Х	-	200-661-7	-		Х	Х	Х	Х	Х
Ethyl alcohol	Х	Х	-	200-578-6	-		Х	Х	Х	Х	Х

Methyl alcohol	Х	Х	-	200-659-6	-	Х	Х	Х	Х	Х
Water	Х	Х	-	231-791-2	-	Х	-	Х	Х	Х
Phenazinium,	Х	Х	-	207-518-8	-	Х	Х	Х	Х	Х
3,7-diamino-2,8-dimethyl-5-p										
henyl-, chloride										

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313	Not applicable		
Component	CAS	S-No Weight S	% SARA 313 - Threshold Values %
Isopropyl alcohol	67-	63-0 1.0	1.0
Methyl alcohol	67-	56-1 1.0	1.0

SARA 311/312 Hazardous Categorization

No
Yes
Yes
No
No

Clean Water Act Not ap	plicable
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Clean Air Act	Not applicable		
Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	Х		-

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	-
California Proposition 65	is product does not contain any Proposition 65 ch	emicals

Component	CAS-No	California Prop. 65		Prop 65 NSRL		Category
Ethyl alcohol	64-17-5	Developm	Developmental		-	Developmental Carcinogen
Methyl alcohol	67-56-1	Developm	iental -		Developmental	
State Right-to-Know	Not applicable					
Component	Massachusetts	New Jersey	Pennsy	Ivania	Illinois	Rhode Island
Isopropyl alcohol	Х	Х	Х		-	Х
Ethyl alcohol	Х	Х	Х		Х	Х

Methyl alcohol	Х	Х	Х	Х	Х
Water	-	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B2 Flammable liquid D2A Very toxic materials

Regulatory Affairs Lab Alley LLC



16. Other information

Email: customerservice@laballey.com

Prepared By

Revision Date Print Date Revision Summary 26-Jan-2019 26-Jan-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet 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 SDS