SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: OPTIK EOSIN PX TYPE 1

Product Code: RS4577-A

1.2 Recommended Use and Restrictions on Use

Use Of The Substance/Mixture : For professional use only.

Restrictions On Use : No additional information available

Name, Address, and Telephone of the Responsible Party

Company

Avantik
19 Chapin Road - Building C
Pine Brook, NJ 07058
800-783-9424
avantik.com
orders@avantik.com

Emergency Telephone Number

Emergency Number : CHEMTREC 800-424-9300 (USA & Canada)

CHEMTREC 703-527-3887 (International)
Non-transport 972-436-1010 (USA)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS-US/CA Classification

Flammable liquids, Category 2	H225
Skin irritation, Category 2	H315
Eye irritation, Category 2	H319
Skin sensitization, Category 1	H317

Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA) :

GHS02 GHS07

Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA) : H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

Precautionary Statements (GHS-US/CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P261 - Avoid breathing mist, spray, or vapors.

P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, protective gloves, and protective clothing.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see Section 4 of this Safety Data Sheet).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3 Hazards associated with known or reasonably anticipated uses

If this product is used in unforeseeable chemical processes and not used as intended or reasonable, the hazards listed in Section 2.3 cannot cover all chemistries. Therefore, a Process Hazard Analysis (PHA) or other hazard assessment for additional specific end uses should be performed to ensure that hazards are fully understood, and adequate safety measures are in place. See Section 10 for relevant reactivity and stability information.

2.4. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.5 Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Ethyl alcohol	Ethanol / ALCOHOL / Alcohol / Grain alcohol / Anhydrous ethanol / Alcohol (ethyl) / Alcohol anhydrous	(CAS-No.) 64-17-5	77	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Acetic acid	Acetic acid, glacial / Ethanoic acid / Ethylic acid / Vinegar acid / ACETIC ACID / Acetic acid solution / Acetic acid ...% / Acetic acid ... %	(CAS-No.) 64-19-7	3	Flam. Liq. 3, H226 Met. Corr. 1, H290 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 1, H370 Aquatic Acute 3, H402
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt	C.I. 45380 / C.I. Acid Red 87 / Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate / Eosine Extra Yellowish / Eosine Yellowish / Fluorescein, 2',4',5',7'-tetrabromo-, disodium salt / Hidacid Eosine Soda Salt / Irgalite Bronze Red CL / Japan Red 103 / Morning red / Orient Water Red 2 / Phlox Red Toner X-1354 / Phloxine Red 20-7600 / Red No. 103 / Red No. 230-1 / 2',4',5',7'-Tetrabromofluorescein disodium salt / Water Red 2 / Eosin disodium salt / Eosin Y	(CAS-No.) 17372-87-1	0.26	Eye Irrit. 2, H319 Skin Sens. 1, H317

	Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, sodium salt (1:2) / Acid Red 87 / ACID RED 87 / Food Red 103 / D and C Red No. 22 / 2-(3,6-Dihydroxy-2,4,5,7-tetrabromoxanthen-9-yl)-benzoic acid disodium salts / 2-(3,6-Dihydroxy-2,4,5,7-tetrabromoxanthen-9-yl)benzoic acid disodium salt / C.I. 45380 sodium salt / CI 45380 / Disodium 2',4',5',7'-tetrabromo-3-oxo-3H-spiro(isobenzofuran-1,9'-xanthene)-3',6'-diolate / Acid red 87 / Disodium 2',4',5',7'-tetrabromo-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthene]-3',6'-diolate			
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt	D and C Red No. 28 / C.I. 45410 / C.I. Acid Red 92 / Eosin Blue / Eosine Blue / Fluorescein, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-, disodium salt / Food Dye Red No. 104 / Food Red No. 104 / Phloxine B / Red 104 / Red No. 104 / 3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid / Spiro[isobenzofuran-1(3H),9'-(9H)xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt / Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, sodium salt (1:2) / ACID RED 92 / Acid Red 92 / C.I. 45410 sodium salt / Disodium 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3-oxo-3H-spiro(isobenzofuran-1,9'-xanthene)-3',6'-diolate / C.I. 45410 sodium / CI 45410 / D and C red no. 28 / Disodium 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthene]-3',6'-diolate / Dinatrium-6-(2',4',5',7'-tetrabrom-6'(3')-oxo-3'(6')-oxido-9-xanthenyl)-2,3,4,5-tetrachlorbenzolcarboxylat / Fluorescein, 2'4'5'7'-tetrabromo-4,5,6,7-tetrachloro-, disodium salt	(CAS-No.) 18472-87-2	< 0.1	Eye Irrit. 2A, H319

Full text of H-statements: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Immediately remove contaminated clothing. Immediately drench affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists. In case of contamination of larger areas, rinse skin with water/shower.

Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Skin sensitization. Causes skin irritation. Causes serious eye irritation.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis. Prolonged or repeated contact with the skin may cause dermatitis.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting, and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Chronic Symptoms: Repeated and prolonged exposure may cause an allergic skin reaction. Repeated or prolonged skin contact may cause dermatitis and defatting. Repeated exposure may cause skin dryness or cracking.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Water may be ineffective because it may not cool the material below its flash point. None known. Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Explosion Hazard: May form flammable or explosive vapor-air mixture. Heating will cause rise in pressure with risk of bursting.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO_2). Sodium oxides. Bromine compounds.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Avoid breathing (vapor, mist, spray). Use special care to avoid static electric charges.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources first, then ventilate the area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

For Containment: Remove ignition sources. As an immediate precautionary measure, isolate spill or leak area in all directions. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Material is hygroscopic.

Incompatible Materials: Strong oxidizers. Alkali metals.

Specific End Use(s)

For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Ethyl alcohol (64-17-5)		
USA ACGIH	ACGIH® TLV® STEL	1000 ppm
USA ACGIH	ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL TWA	1900 mg/m³
USA OSHA	OSHA PEL TWA	1000 ppm
USA NIOSH	NIOSH REL TWA	1900 mg/m³
USA NIOSH	NIOSH REL TWA	1000 ppm
USA IDLH	IDLH	3300 ppm (10% LEL)
Alberta	OEL TWA	1880 mg/m³
Alberta	OEL TWA	1000 ppm
British Columbia	OEL STEL	1000 ppm
Manitoba	OEL STEL	1000 ppm
New Brunswick	OEL STEL	1000 ppm
Newfoundland & Labrador	OEL STEL	1000 ppm
Nova Scotia	OEL STEL	1000 ppm

Document State: Effective (Simple)
CONFIDENTIAL

Nunavut	OEL STEL	1250 ppm
Nunavut	OEL TWA	1000 ppm
Northwest Territories	OEL STEL	1250 ppm
Northwest Territories	OEL TWA	1000 ppm
Ontario	OEL TWAEV	1000 ppm
Prince Edward Island	OEL STEL	1000 ppm
Québec	VECD (OEL STEV)	1000 ppm
Saskatchewan	OEL STEL	1250 ppm
Saskatchewan	OEL TWA	1000 ppm
Yukon	OEL STEL	1900 mg/m³
Yukon	OEL STEL	1000 ppm
Yukon	OEL TWA	1900 mg/m³
Yukon	OEL TWA	1000 ppm
Acetic acid (64-19-7)		
USA ACGIH	ACGIH® TLV® TWA	10 ppm
USA ACGIH	ACGIH® TLV® STEL	15 ppm
USA OSHA	OSHA PEL TWA	25 mg/m³
USA OSHA	OSHA PEL TWA	10 ppm
USA NIOSH	NIOSH REL TWA	25 mg/m³
USA NIOSH	NIOSH REL TWA	10 ppm
USA NIOSH	NIOSH REL STEL	37 mg/m³
USA NIOSH	NIOSH REL STEL	15 ppm
USA IDLH	IDLH	50 ppm
Alberta	OEL STEL	37 mg/m³
Alberta	OEL STEL	15 ppm
Alberta	OEL TWA	25 mg/m³
Alberta	OEL TWA	10 ppm
British Columbia	OEL STEL	15 ppm
British Columbia	OEL TWA	10 ppm
Manitoba	OEL STEL	15 ppm
Manitoba	OEL TWA	10 ppm
New Brunswick	OEL STEL	15 ppm
New Brunswick	OEL TWA	10 ppm
Newfoundland & Labrador	OEL STEL	15 ppm
Newfoundland & Labrador	OEL TWA	10 ppm
Nova Scotia	OEL STEL	15 ppm
Nova Scotia	OEL TWA	10 ppm
Nunavut	OEL STEL	15 ppm
Nunavut	OEL TWA	10 ppm
Northwest Territories	OEL STEL	15 ppm
Northwest Territories	OEL TWA	10 ppm
Ontario	OEL TWAEV	15 ppm
Ontario	OEL TWAEV	10 ppm
Prince Edward Island	OEL STEL	15 ppm
Prince Edward Island	OEL TWA	10 ppm
Québec	VECD (OEL STEV)	37 mg/m³
Québec	VECD (OEL STEV)	15 ppm
Québec	VEMP (OEL TWAEV)	25 mg/m³
Québec	VEMP (OEL TWAEV)	10 ppm
Saskatchewan	OEL STEL	15 ppm
Saskatchewan	OEL TWA	10 ppm

Yukon	OEL STEL	43 mg/m³
Yukon	OEL STEL	25 ppm
Yukon	OEL TWA	25 mg/m³
Yukon	OEL TWA	10 ppm

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles. Faceshield as determined by task.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	No data available
Evaporation Rate	:	No data available
Melting Point	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	No data available
Auto-ignition Temperature	:	No data available
Decomposition Temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Lower Flammable Limit	:	No data available
Upper Flammable Limit	:	No data available
Vapor Pressure	:	No data available
Relative Vapor Density at 20°C	:	No data available
Relative Density	:	No data available
Specific Gravity	:	No data available
Solubility	:	No data available
Partition Coefficient: N-Octanol/Water	:	No data available
Viscosity, Kinematic	:	No data available
Particle characteristics	:	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

Chemical Stability:

Highly flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

Incompatible Materials:

Strong oxidizers. Alkali metals.

Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO_2). Sodium oxides. Bromine compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Eye Contact, Inhalation, Oral.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data: No additional information available

Skin Corrosion/Irritation: Causes skin irritation.

Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis. Prolonged or repeated contact with the skin may cause dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting, and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Chronic Symptoms: Repeated and prolonged exposure may cause an allergic skin reaction. Repeated or prolonged skin contact may cause dermatitis and defatting. Repeated exposure may cause skin dryness or cracking.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rabbit	> 15800 mg/kg
LC50 Inhalation Rat	133.8 mg/l/4h
LC50 Inhalation Rat	124.7 mg/l/4h
Acetic acid (64-19-7)	
LD50 Oral Rat	3310 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	1060 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	11.4 mg/l/4h (No deaths)
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt (17372-87-1)	
LD50 Oral Rat	2344 mg/kg [EU REACH Dossier]
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt (18472-87-2)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg (Source: ECHA_API)
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt (17372-87-1)	

IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Not classified.

Ethyl alcohol (64-17-5)	
LC50 Fish 1	11200 mg/l
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
ErC50 algae	1000 mg/l
NOEC Chronic Crustacea	9.6 mg/l
Acetic acid (64-19-7)	
LC50 Fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt (18472-87-2)	
LC50 Fish 1	> 100 mg/l (Zebra Fish Danio rerio)
LOEC (Chronic)	1 mg/l

Persistence and Degradability

CV Select (Pureview) Eosin-Y Phloxine B	
Persistence and Degradability	The substance is biodegradable. Unlikely to persist. Not established.

Bioaccumulative Potential

CV Select (Pureview) Eosin-Y Phloxine B	
Bioaccumulative Potential	Not established.
Ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.35 (at 24 °C / 75.2 °F (at pH 7.4))
Acetic acid (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.17 (at 25 °C / 77 °F (at pH 7))
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt (17372-87-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.33

Mobility in Soil

No additional information available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with DOT

Proper Shipping Name : ETHYL ALCOHOL SOLUTIONS
Hazard Class : 3
Identification Number : UN1170
Label Codes : 3

Packing Group : II
ERG Number : 127

In Accordance with IMDG

Proper Shipping Name : ETHANOL SOLUTION
Hazard Class : 3
Identification Number : UN1170
Label Codes : 3

Packing Group : II
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D

In Accordance with IATA

Proper Shipping Name : ETHANOL SOLUTION
Hazard Class : 3
Identification Number : UN1170
Label Codes : 3

Packing Group : II
ERG Code (IATA) : 3L

In Accordance with TDG

Proper Shipping Name : ETHANOL SOLUTION
Hazard Class : 3
Identification Number : UN1170
Label Codes : 3

Packing Group : II

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

CV Select (Pureview) Eosin-Y Phloxine B	
SARA Section 311/312 Hazard Classes	Health hazard - Respiratory or skin sensitization Health hazard - Skin corrosion or Irritation Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation
Ethyl alcohol (64-17-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Acetic acid (64-19-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
CERCLA RQ	5000 lb
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt (17372-87-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt (18472-87-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

US State Regulations

Ethyl alcohol (64-17-5)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Acetic acid (64-19-7)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) Environmental Hazard List

Canadian Regulations

Ethyl alcohol (64-17-5)
Listed on the Canadian DSL (Domestic Substances List)
Acetic acid (64-19-7)
Listed on the Canadian DSL (Domestic Substances List)
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-3',6'-dihydroxy-, disodium salt (17372-87-1)
Listed on the Canadian DSL (Domestic Substances List)
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt (18472-87-2)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 08/24/2026

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2022-272.

GHS Full Text Phrases:	
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H370	Causes damage to organs.
H402	Harmful to aquatic life

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLH: European Union Harmonised Classification and Labelling Proposal
EU_RAR: European Union Risk Assessment Report
FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2024 (Can, US)

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Signatory Table

Action Name	User Name	Title	Signature Date
Send for Approval	Ethan Carpenter	GRAPHIC DESIGNER	14-Oct-2026 09:29
Approve	Samantha Pignatello	Digital Marketing Associate/Marketing Coordinator	14-Oct-2026 10:57

* Dates are displayed according to the system time zone: (GMT-04:00) Eastern Daylight Time (America/New_York)