

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/30/2014 Version: 1.0

SECTION 1: Identification of th	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Crystal Violet, 1% w/v in Glacial Acetic Acid
Product code	: LC13541
	ne substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the	safety data sheet
LabChem Inc Jackson's Pointe Commerce Park Buildin Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	ig 1000, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	er
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	tion
2.1. Classification of the substan	
Classification (GHS-US)	
Flam. Liq. 3H226Skin Corr. 1BH314Eye Dam. 1H318Carc. 2H351Aquatic Acute 3H402Aquatic Chronic 3H412Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	HS02 GHS05 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapor H314 - Causes severe skin burns and eye damage H351 - Suspected of causing cancer H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, ventilating, lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P260 - Do not breathe mist, vapors, spray P264 - Wash exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection P301+P331 - JE SWALL OWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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	P310 - Immediately call a poison cen P363 - Wash contaminated clothing I P370+P378 - In case of fire: Use cal extinguish P403+P235 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/contained	before reuse rbon dioxide (CO2), ed place. Keep cool	
2.3. Other hazards			
Other hazards not contributing to the classification	: None.		
2.4. Unknown acute toxicity (GHS-US)			
Not applicable			
SECTION 3: Composition/information	on on ingredients		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
Acetic Acid	(CAS No) 64-19-7	99	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318
Gentian Violet	(CAS No) 548-62-9	1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text of H-phrases: see section 16		·	· · · · · · · · · · · · · · · · · · ·
SECTION 4: First aid measures			
.1. Description of first aid measures			
irst-aid measures general	: Never give anything by mouth to an a advice (show the label where possible		
irst-aid measures after inhalation	: Remove to fresh air and keep at rest poison center or doctor/physician.	in a position comfor	table for breathing. Immediately call a
irst-aid measures after skin contact	: Remove/Take off immediately all cor Immediately call a poison center or d		Rinse skin with water/shower.
irst-aid measures after eye contact	do. Continue rinsing. Immediately ca	Il a poison center or	
irst-aid measures after ingestion	: Rinse mouth. Do NOT induce vomitir	ng. Immediately call	a poison center or doctor/physician.
.2. Most important symptoms and effe	cts, both acute and delayed		
symptoms/injuries	Causes severe skin burns and eye d	amage.	
symptoms/injuries after eye contact	: Causes serious eye damage.		
.3. Indication of any immediate medical Dbtain medical assistance.	al attention and special treatment need	ed	
SECTION 5: Firefighting measures			
.1. Extinguishing media			
uitable extinguishing media	: Foam. Dry powder. Carbon dioxide.	vvater spray. Sand.	
Insuitable extinguishing media	: Do not use a heavy water stream.		
.2. Special hazards arising from the su			
ire hazard	: Flammable liquid and vapor.		
xplosion hazard leactivity	: May form flammable/explosive vapor : Thermal decomposition generates : (
.3. Advice for firefighters			
irefighting instructions	: Use water spray or fog for cooling ex chemical fire. Prevent fire-fighting wa		

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SECTION 6: Accidental release mea	asures						
6.1. Personal precautions, protective ec	quipment and emergency procedures						
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.						
6.1.1. For non-emergency personnel							
Protective equipment	: Safety glasses. Gloves. Protective clothing.						
Emergency procedures	: Evacuate unnecessary personnel.						
6.1.2. For emergency responders Protective equipment Emergency procedures	Equip cleanup crew with proper protection.Ventilate area.						
6.2. Environmental precautions							
Prevent entry to sewers and public waters. Notif	fy authorities if liquid enters sewers or public waters. Avoid release to the environment.						
6.3. Methods and material for containme	ent and cleaning up						
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.						
6.4. Reference to other sections							
See Heading 8. Exposure controls and personal protection.							
See Heading 8. Exposure controls and personal	I protection.						
See Heading 8. Exposure controls and personal SECTION 7: Handling and storage	I protection.						
	I protection.						
SECTION 7: Handling and storage	I protection. : Handle empty containers with care because residual vapors are flammable.						
SECTION 7: Handling and storage7.1.Precautions for safe handling							
SECTION 7: Handling and storage7.1.Precautions for safe handlingAdditional hazards when processed	 Handle empty containers with care because residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist, vapors, spray. Obtain special instructions 						
SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling	 Handle empty containers with care because residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. 						
SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures	 Handle empty containers with care because residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. 						
SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includie	 Handle empty containers with care because residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. ing any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ 						
SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includie Technical measures	 Handle empty containers with care because residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. ing any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment. Comply with applicable regulations. Keep only in the original container in a cool, well ventilated place away from : Heat sources., lgnition sources. Keep container tightly closed. Strong oxidizers. metals. Strong bases. 						
SECTION 7: Handling and storage 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includi Technical measures Storage conditions	 Handle empty containers with care because residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Ing any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment. Comply with applicable regulations. Keep only in the original container in a cool, well ventilated place away from : Heat sources., lignition sources. Keep container tightly closed. 						

No additional information available

.1. Control pa	rameters						
Crystal Violet, 1%	w/v in Glacial Acetic Acid						
ACGIH Not applicable							
OSHA Not applicable							
Acetic Acid (64-19-	-7)						
ACGIH	ACGIH TWA (ppm)	10 ppm					
OSHA	OSHA PEL (TWA) (mg/m³)	OSHA PEL (TWA) (mg/m ³) 25 mg/m ³					
OSHA	OSHA PEL (TWA) (ppm)	OSHA PEL (TWA) (ppm) 10 ppm					
Gentian Violet (548	3-62-9)						
ACGIH	Not applicable	Not applicable					
OSHA	Not applicable						

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8.2. Exposure controls	
Appropriate engineering controls	 Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

S	ΒE	C	Т	0	N	9:	Ρ	hysi	cal	l and	C	hemi	ica	l pro	perties	
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9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: Purple
Odor	: Vinegar odour
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 118 °C
Flash point	: 40 °C Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.06 g/ml
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : Acetic Acid: • Gentian Violet: 50 g/l
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 2.18 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2 Other information	

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
Therma	I decomposition generates : Corrosive vapors.
10.2.	Chemical stability
Flamma	ble liquid and vapor. May form flammable/explosive vapor-air mixture.
10.3.	Possibility of hazardous reactions
Reacts	violently with (some) bases: release of heat.
10.4.	Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

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10.5. **Incompatible materials** Strong oxidizers. metals. Strong bases. 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapors.

SECT	ION 1 1	: Tox	icol	og	ica	ıl ir	nfo	orn	natior				

11.1. Information on toxicological effects

Acute toxicity

: Not classified

-	
Crystal Violet, 1% w/v in Glacial Acetic Acid	
LD50 oral rat	3141 mg/kg
ATE US (oral)	3141.000 mg/kg body weight
Gentian Violet (548-62-9)	
ATE US (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after eye contact	: Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity Ecology - water

: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Acetic Acid (64-19-7)	
LC50 fish 1	75 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	47 mg/l (24 h; Daphnia magna; Not neutralized)
EC50 other aquatic organisms 1	> 5000 mg/l (5 h; Activated sludge)
LC50 fish 2	94 mg/l (96 h; Oryzias latipes)
EC50 Daphnia 2	95 mg/l (24 h; Daphnia magna; Static system)
TLM fish 1	100 ppm (96 h; Carassius auratus)
Threshold limit algae 1	90 mg/l (192 h; Microcystis aeruginosa; Neutralized)
Threshold limit algae 2	4000 mg/l (192 h; Scenedesmus quadricauda; Neutralized)
Gentian Violet (548-62-9)	
EC50 Daphnia 1	0.24 - 5 mg/l 48 hr.
EC50 other aquatic organisms 1	0.025 - 0.8 72 hr., Psuedokirchneriella subcapitata

Persistence and degradability 12.2.

Crystal Violet, 1% w/v in Glacial Acetic Acid	
Persistence and degradability	May cause long-term adverse effects in the environment.
Acetic Acid (64-19-7)	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O ₂ /g substance
Chemical oxygen demand (COD)	1.03 g O₂/g substance

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Acetic Acid (64-19-7)	
ThOD	1.07 g O₂/g substance
BOD (% of ThOD)	0.56 - 0.69 % ThOD
Gentian Violet (548-62-9)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Crystal Violet, 1% w/v in Glacial Acetic Acid	
Bioaccumulative potential	Not established.
Acetic Acid (64-19-7)	
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.
Gentian Violet (548-62-9)	
Log Pow	1.172
Bioaccumulative potential	Not established.
2.4. Mobility in soil	
Acetic Acid (64-19-7)	
Surface tension	0.028 N/m (20 °C)
2.5. Other adverse effects	
ffect on ozone layer	
ffect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
ECTION 13: Disposal consideration	15
3.1. Waste treatment methods	
on maste deathent methods	
Vaste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Vaste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable.
	contents/container to comply with local, state and federal regulations.
Vaste disposal recommendations Idditional information Ecology - waste materials	contents/container to comply with local, state and federal regulations.Handle empty containers with care because residual vapors are flammable.
Vaste disposal recommendations dditional information cology - waste materials SECTION 14: Transport information	contents/container to comply with local, state and federal regulations.Handle empty containers with care because residual vapors are flammable.
Vaste disposal recommendations dditional information icology - waste materials <u>BECTION 14: Transport information</u> n accordance with DOT	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment.
Vaste disposal recommendations additional information Ecology - waste materials SECTION 14: Transport information in accordance with DOT fransport document description	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II
Vaste disposal recommendations Additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description JN-No.(DOT)	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment.
Vaste disposal recommendations additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description IN-No.(DOT) Proper Shipping Name (DOT)	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment.
Vaste disposal recommendations Additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description JN-No.(DOT)	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment.
Vaste disposal recommendations additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description IN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II UN2789 Acetic acid solution 8 - Class 8 - Corrosive material 49 CFR 173.136 8 - Corrosive
Vaste disposal recommendations additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description IN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II UN2789 Acetic acid solution 8 - Class 8 - Corrosive material 49 CFR 173.136
Vaste disposal recommendations additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description IN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II UN2789 Acetic acid solution 8 - Class 8 - Corrosive material 49 CFR 173.136 8 - Corrosive
Vaste disposal recommendations additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description IN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II UN2789 Acetic acid solution 8 - Class 8 - Corrosive material 49 CFR 173.136 8 - Corrosive
Vaste disposal recommendations dditional information icology - waste materials SECTION 14: Transport information n accordance with DOT ransport document description IN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard classes	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II UN2789 Acetic acid solution 8 - Class 8 - Corrosive material 49 CFR 173.136 8 - Corrosive
Vaste disposal recommendations dditional information cology - waste materials ECTION 14: Transport information n accordance with DOT ransport document description IN-No.(DOT) roper Shipping Name (DOT) lepartment of Transportation (DOT) Hazard lasses	 contents/container to comply with local, state and federal regulations. Handle empty containers with care because residual vapors are flammable. Avoid release to the environment. UN2789 Acetic acid solution, 8, II UN2789 Acetic acid solution 8 - Class 8 - Corrosive material 49 CFR 173.136 8 - Corrosive

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DOT Special Provisions (49 CFR 172.102)	 A3 - For combination packaging, if glass inner packaging (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packaging. A6 - For combination packaging, if plastic inner packaging are used, they must be packed in tightly closed metal receptacles before packing in outer packaging. A7 - Steel packaging must be corrosion-resistant or have protection against corrosion. A10 - When aluminum or aluminum alloy construction materials are used, they must be resistant to corrosion. B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
ADR	

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Crystal Violet, 1% w/v in Glacial Acetic Acid	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Acetic Acid (64-19-7)	
Not listed on the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (548-62-9)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

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15.2. International regulations

CAN	
CAN	Δ
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Crystal Violet, 1% w/v in Glacial Acetic Acid	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class B Division 3 - Combustible Liquid Class E - Corrosive Material

Acetic Acid (64-19-7)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (548-62-9)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Acetic Acid (64-19-7)

Listed on the Canadian IDL (Ingredient Disclosure List)

[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (548-62-9)

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 2 Moderate Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: H

SDS US (GHS HazCom 2012)

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