

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/09/2015 Revision date: 04/18/2024 Supersedes: 10/07/2022

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SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: LPF100B Iodine Vaporizer Activator/Accelerator Solution
Product code	: LPF100B
1.2. Recommended use and rest	
Use of the substance/mixture	: Latent fingerprint developer
1.3. Supplier	
SIRCHIE 100 Hunter Place Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919- http://www.sirchie.com	554-2266; 800-899-8181
1.4. Emergency telephone numb	er
Emergency number	: 1.800.424.9300 (USA) +1-703-527-3887 (INTL) CHEMTREC: 1.800.424.9300
SECTION 2: Hazard(s) identified	cation
2.1. Classification of the substar	nce or mixture
GHS US classification	
Skin corrosion/irritation Category 1 H3	314 Causes severe skin burns and eye damage
Full text of H statements : see section 16	3
2.2. GHS Label elements, include	ing precautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS US)	 P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): 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. P310 - Immediately call a poison center or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable 3.2. Mixtures

Name	Product identifier	%	GHS US classification
AQUA	(CAS-No.) 7732-18-5	> 89	Not classified
citric acid, monohydrate	(CAS-No.) 5949-29-1	< 10	Skin Corr. 1, H314 Eye Irrit. 2A, H319
methylene blue	(CAS-No.) 61-73-4	< 1	Acute Tox. 4 (Oral), H302

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
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).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	s (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Immediate medical attention and spe	cial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishi	ng media
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the che	emical
Reactivity in case of fire	: No reactivity hazard other than the effects described in sub-sections below.
5.3. Special protective equipment and pre	ecautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containmer	nt 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 p	rotection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

LPF100B lodine Vaporizer Activator/Accelerator Solution
No additional information available
citric acid, monohydrate (5949-29-1)
No additional information available
AQUA (7732-18-5)
No additional information available
methylene blue (61-73-4)
No additional information available

8.2. Appropriate engineering controls

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physic	al and chemical properties	
Physical state	: Liquid	
Appearance	: blue. Liquid.	
Color	: blue	
Odor	: Mild odour	

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Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactive	itv		
10.1. Reactivity			
No reactivity hazard other than the effects de	scribed in sub-sections below.		
10.2. Chemical stability			
Stable under recommended handling and sto	prage conditions (see section 7).		
10.3. Possibility of hazardous reaction	15		
No reactivity hazard other than the effects de	No reactivity hazard other than the effects described in sub-sections below.		
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temper	atures.		
10.5. Incompatible materials			
Strong acids. Strong bases.			
10.6. Hazardous decomposition produ	icts		
fume. Carbon monoxide. Carbon dioxide.			
SECTION 11: Toxicological inform	nation		
11.1. Information on toxicological effe	cts		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
citric acid, monohydrate (5949-29-1)			
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))		
methylene blue (61-73-4)			
LD50 oral rat	1180 mg/kg (Rat, Oral)		
Skin corrosion/irritation	: Causes severe skin burns.		
Serious eye damage/irritation	: Assumed to cause serious eye damage		
Respiratory or skin sensitization	: Not classified		

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Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified : No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information	
12.1. Toxicity	
citric acid, monohydrate (5949-29-1)	
LC50 fish 1	440 – 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Anhydrous form)
EC50 Daphnia 1	1535 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Anhydrous form)
methylene blue (61-73-4)	
LC50 fish 1	45 mg/l (96 h, Pimephales promelas, Literature study, Anhydrous form)
EC50 Daphnia 1	2.26 mg/l (48 h, Daphnia magna, Literature study, Anhydrous form)
12.2. Persistence and degradability	
LPF100B lodine Vaporizer Activator/Accelerate	or Solution
Persistence and degradability	Not established.
citric acid, monohydrate (5949-29-1)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.481 g O₂/g substance (Anhydrous form)
methylene blue (61-73-4)	
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
LPF100B lodine Vaporizer Activator/Accelerate	or Solution
Bioaccumulative potential	Not established.
citric acid, monohydrate (5949-29-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.55 (Anhydrous form, Experimental value)
Bioaccumulative potential	Not bioaccumulative.
methylene blue (61-73-4)	
Partition coefficient n-octanol/water (Log Pow)	0.75 (Estimated value, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

citric acid, monohydrate (5949-29-1)		
Surface tension	No data available in the literature	
Partition coefficient n-octanol/water (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
methylene blue (61-73-4)		
Partition coefficient n-octanol/water (Log Koc)	3.901 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Low potential for mobility in soil.	

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12.5. Other adverse effects

Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	15
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Air transport	
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	

CANADA		
No additional information available		
EU-Regulations		
No additional information available		
National regulations		
No additional information available		
15.3. US State regulations		
No additional information available		

SECTION 16: Other information

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Revision date	: 04/18/2024	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.	
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.	
Full text of H-phrases:		

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.	
Hazard Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.	
Personal protection	: B	
	B - Safety glasses, Gloves	

SDS US (GHS HazCom 2012)

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