

Identification of Substance

Product Name: PB-CLEANER
Catalogue Number: L-001C
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Sodium Hypochlorite 5% CAS 7681-52-9

Hazardous Identification

Potential Health Effect	May cause eyes burning.		
Product Hazard Classifications	EU None	US OSHA Yes	WHMIS Exempt
Reactivity		Slight	

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with copious of clean water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice immediately.

Fire-fighting Measures

Fire and Explosion Hazard	Corrosive and poisonous gas is generated in fire.
Extinguishing Media	Use extinguishing media of foam, sand, carbon dioxide for surrounding fire.
Special Fire and Explosion Hazard	Corrosive and poisonous gas is generated in fire.
Hazardous Combustion Products	Chloride is generated in combustion.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended.

Accidental Release Measures

Personal Precautions	Wear goggles, gloves and antisepticising cloth.
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, absorb leakage with sand. Self-contained breathing apparatus and full protective equipment are recommended for personal precautions.

Handling and Storage

Safe Handling	Avoid contact with eyes and skin. Wear goggles, gloves and antisepticising cloth.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature. Keep away from all acids and strong oxides.
Protection against Explosion And Fires	Keep away from source of heat. Store at the suggested temperature.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Light yellow
Odor	Odor of chlorine
PH	9.0—10.0
Boiling Point	102.2°C
Melting Point	-6°C
Flash Point	NA
Flammability	Non-flammable
Auto Flammability	Non-flammable
Density	1.10
Solubility	Water: soluble Fat: NA

Chemical and Physical Properties

Stability	The component of chlorine is escaped with the time of exposure to air and sunlight.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	Light, heat, incompatibles
Hazardous Decomposition Products	Chloride is generated in combustion.

Toxicological Information

Toxicity Data	Oral LD50 Rat: 5800mg/kg
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	Inhalation may cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat. Ingestion may cause nausea, vomiting. Skin Contact may irritate skin. Eye Contact may cause severe irritation and damage, especially at higher concentration.
Potential Effects of Chronic Exposure	A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R31-36 Irritating to eyes and skin.

Other Information

This document is based on our present knowledge and relevant scientific literatures. Labnovation Technologies, Inc. makes no warranty or representation as to its accuracy, or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers.

If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: LYSE BC3
Catalogue Number: L-9800
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU Quaternary Ammonium Salts < 6.5% criteria:

Hazardous Identification

Potential Health Effect	Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless, transparent
Odor	Pungent
PH	9.6-10.0
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: Rinse & HGB Ref
Synonyms: Cleaner of Hematology Reagent
Catalogue Number: L-3120
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients: Sodium Sulfate<1.5%

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU	US OSHA	WHMIS
	Xi; R36/37/38	Yes	Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slight odor
PH	7.00 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I.

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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Identification of Substance

Product Name: Diluent BC3
Catalogue Number: L-3020
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Anti-Microbial Agent<0.1%

Hazardous Identification

Potential Health Effect	Liquid. Odorless. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by large dose exposure.		
Product Hazard Classifications	EU None	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.

Inhalation Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.

Skin Contact Wash the skin area with soap and water. Rinse with copious amount of water.

Eye Contact Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Odorless
PH	7.70 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	1.06
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

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Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

None

Other Information

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Identification of Substance

Product Name: Rinse 53R
Synonyms: Cleaner of Hematology Reagent
Catalogue Number: L-53R
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients: Sodium Sulfate<1.5%

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU	US OSHA	WHMIS
	Xi; R36/37/38	Yes	Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slight odor
PH	7.00 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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Identification of Substance

Product Name: 53EO-II LYSE
 Code: L-53LEO-II
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518067, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients:	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol <2.0%	CAS: 9014-85-1	65% by weight
	Sodium Lauryl Sulfate<5.0% (Quaternary Ammonium Salt)	CAS: 151-21-3	100% by weight

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slightly Pungent
PH	9.62
Boiling Point	NA
Melting Point	NA
Flash Point	>110°C
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg [Rat]. 4000 mg/kg [Mouse]. Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol: ORAL (LD50): Acute: >4000mg/kg [Rat] Sodium Lauryl Sulfate: ORAL (LD50): Acute: 1288mg/kg [Rat]
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG, European ADR, or IMDG

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

This document is based on our present knowledge and relevant scientific literatures. Labnovation Technologies, Inc. makes no warranty or representation as to its accuracy, or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers.

If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: 53EO-I LYSE
 Code: L-53LEO-I
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518067, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients:	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol <1.5%	CAS: 9014-85-1	65% by weight
	Sodium Chloride <1%	CAS: 7647-14-5	100% by weight
	Sodium Lauryl Sulfate <8% (Quaternary Ammonium Salt)	CAS: 151-21-3	100% by weight

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slightly Pungent
PH	9.62
Boiling Point	NA
Melting Point	NA
Flash Point	>110°C
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg [Rat]. 4000 mg/kg [Mouse]. Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol: ORAL (LD50): Acute: >4000mg/kg [Rat] Sodium Lauryl Sulfate: ORAL (LD50): Acute: 1288mg/kg [Rat]
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG, European ADR, or IMDG

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

This document is based on our present knowledge and relevant scientific literatures. Labnovation Technologies, Inc. makes no warranty or representation as to its accuracy, or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers.

If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: LYSE 53H
Catalogue Number: L-53H
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU Quaternary Ammonium Salts < 6.5% criteria:

Hazardous Identification

Potential Health Effect	Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless, transparent
Odor	Pungent
PH	9.6-10.0
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

This document is based on our present knowledge and relevant scientific literatures. Labnovation Technologies, Inc. makes no warranty or representation as to its accuracy, or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers.

If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: Diluent 53D
Catalogue Number: L-53D
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Anti-Microbial Agent<0.1%

Hazardous Identification

Potential Health Effect	Liquid. Odorless. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by large dose exposure.		
Product Hazard Classifications	EU	US OSHA	WHMIS
	None	Yes	Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.

Inhalation Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.

Skin Contact Wash the skin area with soap and water. Rinse with copious amount of water.

Eye Contact Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Odorless
PH	7.70 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	1.06
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

None

Other Information

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If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: CLEANER 53C
 Catalogue Number: L-53C
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Sodium Hypochlorite 5% CAS 7681-52-9

Hazardous Identification

Potential Health Effect	May cause eyes burning.		
Product Hazard Classifications	EU None	US OSHA Yes	WHMIS Exempt
Reactivity		Slight	

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with copious of clean water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice immediately.

Fire-fighting Measures

Fire and Explosion Hazard	Corrosive and poisonous gas is generated in fire.
Extinguishing Media	Use extinguishing media of foam, sand, carbon dioxide for surrounding fire.
Special Fire and Explosion Hazard	Corrosive and poisonous gas is generated in fire.
Hazardous Combustion Products	Chloride is generated in combustion.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended.

Accidental Release Measures

Personal Precautions	Wear goggles, gloves and antisepticising cloth.
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, absorb leakage with sand. Self-contained breathing apparatus and full protective equipment are recommended for personal precautions.

Handling and Storage

Safe Handling	Avoid contact with eyes and skin. Wear goggles, gloves and antisepticising cloth.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature. Keep away from all acids and strong oxides.
Protection against Explosion And Fires	Keep away from source of heat. Store at the suggested temperature.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Light yellow
Odor	Odor of chlorine
PH	9.0—10.0
Boiling Point	102.2°C
Melting Point	-6°C
Flash Point	NA
Flammability	Non-flammable
Auto Flammability	Non-flammable
Density	1.10
Solubility	Water: soluble Fat: NA

Chemical and Physical Properties

Stability	The component of chlorine is escaped with the time of exposure to air and sunlight.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	Light, heat, incompatibles
Hazardous Decomposition Products	Chloride is generated in combustion.

Toxicological Information

Toxicity Data	Oral LD50 Rat: 5800mg/kg
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	Inhalation may cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat. Ingestion may cause nausea, vomiting. Skin Contact may irritate skin. Eye Contact may cause severe irritation and damage, especially at higher concentration.
Potential Effects of Chronic Exposure	A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R31-36 Irritating to eyes and skin.

Other Information

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If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: Rinse 50R
Synonyms: Cleaner of Hematology Reagent
Catalogue Number: L-50R
Manufacturer: Labnovation Technologies, Inc.
1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients: Sodium Sulfate<1.5%

Hazardous Identification

Potential Health Effect Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.

Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.

Inhalation Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.

Skin Contact Wash the skin area with soap and water. Rinse with copious amount of water.

Eye Contact Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard Not applicable

Extinguishing Media Use extinguishing media for surrounding fire.

Special Fire and Explosion Hazard No special hazards

Hazardous Combustion Products No combustion products posing significant hazards are expected from this product.

Protective Equipment for Firefighters Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slight odor
PH	7.00 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

This document is based on our present knowledge and relevant scientific literatures. Labnovation Technologies, Inc. makes no warranty or representation as to its accuracy, or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers.

If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: 50EO-II LYSE
 Code: L-50LEO-II
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518067, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients:	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol <2.0%	CAS: 9014-85-1	65% by weight
	Sodium Lauryl Sulfate<5.0% (Quaternary Ammonium Salt)	CAS: 151-21-3	100% by weight

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slightly Pungent
PH	9.62
Boiling Point	NA
Melting Point	NA
Flash Point	>110°C
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg [Rat]. 4000 mg/kg [Mouse]. Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol: ORAL (LD50): Acute: >4000mg/kg [Rat] Sodium Lauryl Sulfate: ORAL (LD50): Acute: 1288mg/kg [Rat]
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG, European ADR, or IMDG

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: 50EO-I LYSE
 Code: L-50LEO-I
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518067, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients:	Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol <1.5%	CAS: 9014-85-1	65% by weight
	Sodium Chloride<1%	CAS: 7647-14-5	100% by weight
	Sodium Lauryl Sulfate<8% (Quaternary Ammonium Salt)	CAS: 151-21-3	100% by weight

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slightly Pungent
PH	9.62
Boiling Point	NA
Melting Point	NA
Flash Point	>110°C
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	Sodium chloride: ORAL (LD50): Acute: 3000 mg/kg [Rat]. 4000 mg/kg [Mouse]. Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4, 7-diol: ORAL (LD50): Acute: >4000mg/kg [Rat] Sodium Lauryl Sulfate: ORAL (LD50): Acute: 1288mg/kg [Rat]
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG, European ADR, or IMDG

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: BASO Lyse
 Catalogue Number: L-50L-BA
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Active Ingredients: Non-ionic Surfactant<0.5%

Hazardous Identification

Potential Health Effect	Liquid. Faint odor. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.

Inhalation Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.

Skin Contact Wash the skin area with soap and water. Rinse with copious amount of water.

Eye Contact Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Slightly Pungent
PH	3.30 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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Identification of Substance

Product Name: LYSE 50H
Catalogue Number: L-50H
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU Quaternary Ammonium Salts < 6.5% criteria:

Hazardous Identification

Potential Health Effect	Irritation of skin, eyes, and mucous membrane may be resulted in by Exposure.		
Product Hazard Classifications	EU Xi; R36/37/38	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with soap and water. Rinse with copious amount of water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless, transparent
Odor	Pungent
PH	9.6-10.0
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	NA
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin.

Other Information

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Identification of Substance

Product Name: Diluent 50D
Catalogue Number: L-50D
Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Anti-Microbial Agent<0.1%

Hazardous Identification

Potential Health Effect	Liquid. Odorless. Nonflammable. Irritation of skin, eyes, and mucous membrane may be resulted in by large dose exposure.		
Product Hazard Classifications	EU None	US OSHA Yes	WHMIS Exempt
Reactivity	Minima risk		

First Aid Measures

Ingestion Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.

Inhalation Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.

Skin Contact Wash the skin area with soap and water. Rinse with copious amount of water.

Eye Contact Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice if pain or irritation occurs.

Fire-fighting Measures

Fire and Explosion Hazard	Not applicable
Extinguishing Media	Use extinguishing media for surrounding fire.
Special Fire and Explosion Hazard	No special hazards
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended for firefighters.

Accidental Release Measures

Personal Precautions	Use good laboratory procedures
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface waters.

Handling and Storage

Safe Handling	Avoid contact with eyes. Use good laboratory procedures.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature.
Protection against Explosion And Fires	No special measures required. Refer to the product label for additional information on storage conditions.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Colorless
Odor	Odorless
PH	7.70 ± 0.2
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Not flammable
Auto Flammability	Not flammable
Density	1.06
Solubility	Water: Miscible Fat: NA

Chemical and Physical Properties

Stability	Stable under normal temperatures and pressures.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	None determined.
Hazardous Decomposition Products	No dangerous decomposition products known.

Toxicological Information

Toxicity Data	NA
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

None

Other Information

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Identification of Substance

Product Name: CLEANER 50C
 Catalogue Number: L-50C
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Sodium Hypochlorite 5% CAS 7681-52-9

Hazardous Identification

Potential Health Effect	May cause eyes burning.		
Product Hazard Classifications	EU None	US OSHA Yes	WHMIS Exempt
Reactivity		Slight	

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with copious of clean water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice immediately.

Fire-fighting Measures

Fire and Explosion Hazard	Corrosive and poisonous gas is generated in fire.
Extinguishing Media	Use extinguishing media of foam, sand, carbon dioxide for surrounding fire.
Special Fire and Explosion Hazard	Corrosive and poisonous gas is generated in fire.
Hazardous Combustion Products	Chloride is generated in combustion.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended.

Accidental Release Measures

Personal Precautions	Wear goggles, gloves and antisepticising cloth.
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, absorb leakage with sand. Self-contained breathing apparatus and full protective equipment are recommended for personal precautions.

Handling and Storage

Safe Handling	Avoid contact with eyes and skin. Wear goggles, gloves and antisepticising cloth.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature. Keep away from all acids and strong oxides.
Protection against Explosion And Fires	Keep away from source of heat. Store at the suggested temperature.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Light yellow
Odor	Odor of chlorine
PH	9.0—10.0
Boiling Point	102.2°C
Melting Point	-6°C
Flash Point	NA
Flammability	Non-flammable
Auto Flammability	Non-flammable
Density	1.10
Solubility	Water: soluble Fat: NA

Chemical and Physical Properties

Stability	The component of chlorine is escaped with the time of exposure to air and sunlight.
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	Light, heat, incompatibles
Hazardous Decomposition Products	Chloride is generated in combustion.

Toxicological Information

Toxicity Data	Oral LD50 Rat: 5800mg/kg
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	Inhalation may cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat. Ingestion may cause nausea, vomiting. Skin Contact may irritate skin. Eye Contact may cause severe irritation and damage, especially at higher concentration.
Potential Effects of Chronic Exposure	A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I .

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R31-36 Irritating to eyes and skin.

Other Information

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If for internal purposes only, unlimited paper copies of this MSDS are permitted.

Identification of Substance

Product Name: CE-CLEAN
 Catalogue Number: L-002C
 Manufacturer: Labnovation Technologies, Inc.
 1F, W2-B Building, Keji 2 Road South, Hi-Tech Industrial Park
 Shenzhen 518057, China
 Emergency Call: +86 755 86368328

Composition and Information on Ingredients

Hazardous Ingredients per EU criteria: Subtilisin <5% CAS 9014-01-1

Hazardous Identification

Potential Health Effect	Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation		
Product Hazard Classifications	EU Xi; R36/37/38 R42	US OSHA Yes	WHMIS Exempt
Reactivity	Stable		

First Aid Measures

Ingestion	Call physician for medical attention if the product is taken internally. Do not attempt to induce vomiting, or to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious.
Inhalation	Remove exposed individual to fresh air. If irritation or signs of toxicity occur, seek medical advice immediately.
Skin Contact	Wash the skin area with copious of clean water.
Eye Contact	Wash immediately with clean and flowing water. Continue for at least 15 minutes. Obtain medical advice immediately.

Fire-fighting Measures

Fire and Explosion Hazard	Noncombustible
Extinguishing Media	Use extinguishing media of foam, sand, carbon dioxide for surrounding fire.
Special Fire and Explosion Hazard	None
Hazardous Combustion Products	Not applicable
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective equipment are recommended.

Accidental Release Measures

Personal Precautions	Wear goggles, gloves and antisepticising cloth.
Clean-up Methods	Wipe up spill and place in containers suitable for disposal.
Environmental Precautions	For large spills, absorb leakage with sand. Self-contained breathing apparatus and full protective equipment are recommended for personal precautions.

Handling and Storage

Safe Handling	Avoid contact with eyes and skin. Wear goggles, gloves and antisepticising cloth.
Recommended Storage Conditions	Keep in the original packaging at the labeled temperature. Keep away from all acids and strong oxides.
Protection against Explosion And Fires	Keep away from source of heat. Store at the suggested temperature.

Exposure Controls and Personal Protection

Engineering Controls	Use in well-ventilated rooms. No special engineering controls are required.
Respiratory Protection	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection	Impervious gloves are recommended if hand contact with the material is anticipated.
Eye Protection	Safety glasses or goggles are recommended if danger of splashes may be present.
Skin Protection	Laboratory coat or appropriate clothing is needed when working with the product.

Chemical and Physical Properties

Appearance	Liquid
Color	Blue
Odor	Odor of chlorine
PH	8.0-8.4
Boiling Point	NA
Melting Point	NA
Flash Point	NA
Flammability	Non-flammable
Auto Flammability	Non-flammable
Density	NA
Solubility	Water: soluble Fat: NA

Chemical and Physical Properties

Stability	Stable
Materials to Avoid	Incompatible with acids, bases and strong oxidizers.
Conditions to Avoid	Light, heat, incompatibles
Hazardous Decomposition Products	None

Toxicological Information

Toxicity Data	9014-01-1 Subtilisin Oral LD50 Rat: 2000mg/kg
Routes of Exposure	Skin, eyes, inhalation and ingestion
Potential Effects of Acute Exposure	Inhalation may cause irritation to the respiratory tract, (nose and throat); symptoms may include coughing and sore throat. Ingestion may cause nausea, vomiting. Skin Contact may irritate skin. Eye Contact may cause severe irritation and damage, especially at higher concentration.
Potential Effects of Chronic Exposure	A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I.

Ecological Information

General Notes	Do not introduce undiluted product or large quantities of it to reach surface water, water supply, or sewage system.
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Disposal Considerations

Waste Disposal	Dispose unused product, packaging in accordance with local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transport Information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

Regulatory Information

SARA 313	No compounds listed.
CERCLA RG's, 40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification

Xi



Irritant

R36/37/38 Irritating to eyes and skin. R42 May cause sensitization by inhalation.

Other Information

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