

SAFETY DATA SHEET

Doc. ID: STS-100-75 Rev. AA Issued (year/month/day) 2015/05/18

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lumigen SPARCL Trigger Solution

Part Number STS-100, STS-1000

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use For laboratory use only. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Lumigen, Inc. (A Beckman Coulter

company)

22900 W. Eight Mile Road Southfield, MI 48033, U.S.A.

Tel:248-351-5600

e-mail address ksrashid@beckman.com

1.4 Emergency telephone number

Telephone number (24H) ChemTel Expert Assistance

Hotline/MSDS Fax Access by dialing 800-255-3924 or for

International +01-813-248-0585

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture

Colorless; Clear; Liquid; Alcohol odor

Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Flammable Liquids, Category 4 Skin Irritation Category 3

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Section 2 Hazards Identification (Continued)

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients

Ethyl Alcohol

Urea Hydrogen Peroxide

Hydrochloric Acid

Pictogram

None

Signal Word

WARNING

Hazard Statements

H227 Combustible Liquid

H316 Causes mild skin irritation.

Precautionary Statements

P210 Keep away from heat, hot surfaces, and sparks. No smoking.

P280 Wear protective gloves, protective clothing and eye/face protection.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P370+P378 In case of fire: Use water spray for extinction. P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:	Hazard Classification of Pure Ingredients				
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Ethyl Alcohol CAS # 64-17-5 EINECS # 200-578-6 Index # 603-002-00-5	<5	F;R11	Flam. Liq. 2 H225	Flam. Liq. 2 H225	
Hydrochloric Acid CAS # 7647-01-0 EINECS # 231-595-7 Index # 017-002-01-X	<0.5	C;R34-37	Acute Tox. Oral 4 STOT SE 3 Skin Corr. 1B H302; H314; H335	Acute Tox. Oral 4 STOT SE 3 Skin Corr. 1B H302; H314; H335	

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Section 3 Composition and Information on Ingredients (Continued)

Urea Hydrogen Peroxide	<0.1	O;R8	Eye Dam. 1 Ox. Sol. 3 Skin Corr. 1B H272; H314; H318	Eye Dam. 1 Ox. Sol. 3 Skin Corr. 1B H272; H314; H318	
CAS # 124-43-6 EINECS # 204-701-4 Index # Not available		C;R34			

See section 8 for available Occupational exposure limits See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact If product enters eyes, wash eyes gently under running water for 15 minutes

or longer, making sure that the eyelids are held open. If pain or irritation occur,

obtain medical attention.

Skin Contact In case of skin contact, flush with copious amounts of water for at least 15

minutes. Remove contaminated clothing and shoes. If pain or irritation occur,

obtain medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

Causes mild skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties Combustible liquid

5.1 Extinguishing Media In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

No combustion products posing significant hazards are expected from this

product (an aqueous solution).

Section 5 Fire Fighting Measures (Continued)

5.3 Advice for fire fighters

Protective Equipment Self-contained breathing apparatus is recommended for firefighters in all

chemical fire situations.

5.4 Additional information No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions Observe general safety guidelines for protection; avoid eye and skin contact.

Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions No special requirements.

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures Absorb spilled material with an appropriate inert, non-flammable absorbent and

dispose according to local regulations.

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling Avoid exposure to heat and incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from incompatible material (see Section 10).

To maintain efficacy, store according to the instructions in the product labeling.

7.3 Specific end uses No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

ACGIH

None established

DFG MAK

Ireland

IOELVs

NIOSH

None established

None established

None established

None established

None established

None established

8.2 Exposure controls

Engineering ControlsNo special engineering controls are required. Use with good general ventilation.



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Section 8 Exposure Controls and Personal Protection (Continued)

Eye Protection Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate

government standards.

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate

government standards.

Respiratory ProtectionUnder normal conditions, the use of this product should not require respiratory

protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory

protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

			<u> </u>				
9.1	Information on basic physical and chemical properties						
	Physical State	Liquid	Specific Gravity (Water=1.0)	1.0			
	Color	Colorless	Solubility				
	Transparency	Clear	Water	Soluble			
	Odor	Alcohol odor	Organic	Not determined			
	рН	8.00 @25°C	Partition coefficient: n-octanol/water	Not determined			
	Freezing Point	Not determined	Auto-ignition Temp.	Not applicable			
	Boiling Point	100°C (212°F)	Decomposition Temperature	Not determined			
	Flash Point	61°C (141.8°F)	Percent Volatiles	Not available			
	Evaporation Rate	Not determined	Vapor Pressure	Not determined			
	Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined			
	Flammability Limits	Not applicable	Explosive Properties	Not applicable			
	Vapor Density	Not determined	Oxidizing Properties	Not determined			
	Odor Threshold	Not applicable					
9.2	Other Information	No further relevant information available.					

Section 10 Stability and Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal temperatures and pressures.

Section 10 Stability and Reactivity (Continued)

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to AvoidTo maintain product performance keep away from strong acids, strong bases,

strong oxidizers.

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from

this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Not applicable

Primary Routes of Exposure Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation Causes mild skin irritation.

Serious eye damage/eye

irritation

No data available.

Respiratory/skin sensitization No data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,

OSHA or 67/548/EEC Annex I.

Germ cell mutagenicity

No data available

No data available.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard No data available.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species
Microtox
No information available.
No information available.
No information available.

Section 12 Ecological Information (Continued)

Fresh Water Algae
No information available.

12.2 Persistence and degradability
No information available.

12.3 Bioaccumulation
No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects No further relevant information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal Chemical residues and remains should be routinely handled as special waste. This

must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal Dispose of waste product, unused product and contaminated packaging in

compliance with federal, state and local regulations. If unsure of the applicable

requirements, contact the authorities for information.

13.2 Additional information Suggested European waste catalogue 18 01 07 - chemicals other than those

mentioned in 18 01 06. Dispose in accordance with national, state and local

waste regulations.

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal and State Regulations

SARA 313 Hydrochloric Acid is subject to reporting requirements of Section 313, Title III of

SARA. 1.0 % de minimis concentration

CERCLA RG's, 40 CFR 302.4 Hydrochloric Acid is listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL Hydrochloric Acid is listed.

New Jersey Dept. of Health RTK List

Hydrochloric Acid is listed.

Pennsylvania RTK Hydrochloric Acid is listed.

Section 15 Regulatory Information (Continued)

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN Not applicable

Ingredients on Ingredient Disclosure List

Ethyl Alcohol Hydrochloric Acid

Ingredients with unknown toxicological properties

None

15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Revision Changes

New document

Hazard Class, hazard statements and risk phrase description from section 3

C - Corrosive

F - Highly flammable

O - Oxidising

R11 Highly flammable.

R34 Causes burns.

R37 Irritating to respiratory system.

R8 Contact with combustible material may cause fire.

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Eye Dam. 1 - Eye Damage Category 1

Flam. Liq. 2 - Flammable Liquids, Category 2

Ox. Sol. 3 - Oxidizing Solids Category 3

Skin Corr. 1B - Skin Corrosion Category 1B

STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3

H225 - Highly flammable liquid and vapour.

H272 - May intensify fire; oxidiser.

Section 16 Other Information (Continued)

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road

Goods by Road

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

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