

SAFETY DATA SHEET

Doc. ID: SBGR-010-75 Rev. AA Issued (year/month/day) 2015/05/26

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

1.1 Product Identifier

Product Name Lumigen SPARCL Background Reducing Agent

Part Number SBGR-010, SBGR-250

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)

Flammable Liquids, Category 3

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

F;R10

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

Flammable Liquids, Category 3

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

Hazardous Ingredients

Ethyl Alcohol **Pictogram**



Section 2 Hazards Identification (Continued)

Signal Word

WARNING

Hazard Statements

H226 Flammable liquid and vapour.

Precautionary Statements

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

P233 Keep container tightly closed.

P240 Ground container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

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

P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.

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	<2	F;R11	Flam. Liq. 2 H225	Flam. Liq. 2 H225	

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.

Section 4 First Aid Measures (Continued)

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.

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 Flammable liquid and vapor.

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

Flammable liquid in aqueous solution; vapors may present fire hazard at elevated

temperatures.

Hazardous Combustion Products

No information available.

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 Use good laboratory procedures; avoid eye and skin contact.
- 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

None established

Ireland

None established

8.2 Exposure controls

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

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

9.1 Information on basic physical and chemical properties

Physical State Liquid Specific Gravity 1.0

(Water=1.0)

Color Colorless Solubility

Transparency Clear Water Soluble

Section 9 Physical and Chemical Properties (Continued)

	Odor	Alcohol odor	Organic	Not determined
	рН	3.50 @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	54°C (129.2°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

10.2 Chemical Stability

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to Avoid

10.5 Incompatible materials

No data available.

Stable under normal temperatures and pressures.

No further relevant information available.

To maintain product performance keep away from strong acids, strong bases, strong oxidizers.

Avoid exposure to heat and direct sunlight.

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 No data available.

Section 11 Toxicological Information (Continued)

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 mutagenicityNo data available **Reproductive Toxicity**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
Water Flea
Fresh Water Algae

12.2 Persistence and degradability
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.

Lumigen SPARCL Background Reducing Agent

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 06* - chemicals consisting of or

containing dangerous substances. Dispose in accordance with national, state

and local waste regulations.

Section 14 Transport Information

	Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1	UN/ID Number	1987	1987	1987	1987	PIN - 1987
14.2	Shipping Name	Alcohols, n.o.s. (Ethai	nol solution)			
14.3	Hazard Class	Flammable liquids	Flammable liquids	Flammable liquid	Flammable liquids	Flammable liquids
	Subsidiary Risk	None	None	Not applicable	None	None
	Classification Code	Not applicable	Not applicable	Not applicable	F1	Not applicable
14.4	Packing Group	III	III	III	III	III
	Special Provisions	A3; A180	223, 274	172	274	16
	Additional information					
	IATA ERG Code	3L	Not applicable	Not applicable	Not applicable	Not applicable
	EmS	Not applicable	F-E, S-D	Not applicable	Not applicable	Not applicable
	NAERG Code	Not applicable	Not applicable	127	Not applicable	127
14.5	Environmental Hazards					
	Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable
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14.6 Special Precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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.

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Section 15 Regulatory Information (Continued)

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.

EU Regulations

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

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)

Highly flammable Risk and Safety Phrases

R10 Flammable.

S35 This material and its container must be disposed of in a safe way.

S43 In case of fire use... (indicate in the space the precise type of fire fighting

equipment. If water increases the risk, add - Never use water).

S51 Use only in well ventilated areas.

Canada

WHMIS Classification: B2 - Flammable and Combustible Material: Flammable Liquid

PIN 1987

Ingredients on Ingredient Disclosure List

Ethyl Alcohol

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

Safety Ratings Flammability Health Reactivity with Wate Contact	1 0=None 0 1=Slight
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Revision Changes New document

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

F - Highly flammable R11 Highly flammable.

Flam. Liq. 2 - Flammable Liquids, Category 2 H225 - Highly flammable liquid and vapour.

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Section 16 Other Information (Continued)

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous 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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