

## Safety Data Sheet

**ROBOSEP<sup>TM</sup> TIP HEAD POLISHING COMPOUND**
**EFFECTIVE DATE: 2015-09-18**

### 1 Product and Company Identification

- |                                       |  |
|---------------------------------------|--|
| <b>1.1 Product Name:</b>              | RoboSep <sup>TM</sup> Tip Head Polishing Compound  |
| <b>1.2 Product Identifier:</b>        | isopropanol, 63%   |
| <b>1.3 Catalog Number:</b>            | 20119  |
| <b>1.4 Product Use:</b>               | Laboratory Reagent   |
| <b>1.5 Manufacturer/Supplier:</b>     | STEMCELL Technologies<br>Suite 500-1618 Station Street<br>Vancouver, British Columbia V6A 1B6 Canada |
| <b>1.6 In Case of Emergency Call:</b> | 1-800-667-0322   |

### 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

Flammable liquids, Category 2  
 Eye irritation, Category 2B  
 Specific target organ toxicity - single exposure, Category 3

#### 2.2 Label elements

##### Pictogram



**Signal word**                      Danger

##### Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

##### Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+340+312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+313	If eye irritation persists: Get medical advice/ attention.
P370+378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**2.3 Other hazards** No data available

### 3 Composition / Information on Ingredients

#### 3.1 Substances

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
isopropanol	67-63-0	63%	200-661-7
Polyoxyethylene sorbitan monolaurate	9005-64-5	10%	500-018-3

### 4 First Aid Measures

#### 4.1 Description of first aid measures

##### 4.1.1 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### 4.1.2 In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### 4.1.3 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### 4.1.4 If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### 5 Fire Fighting Measures

#### 5.1 Extinguishing Media

##### 5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

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No data available

**5.2 Special hazards arising from the substance or mixture****5.2.1 Flammable Properties and Hazards**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

**5.2.2 Flash Pt**

No data available

**5.2.3 Autoignition Pt**

No data available

**5.2.4 Explosive Limits**

LEL: No data available

UEL: No data available

**5.2.5 Hazardous Combustion Products**

Carbon oxides

**5.3 Fire Fighting Instructions**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

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**6 Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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**7 Handling and Storage****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

For precautions see section 2.2.

**7.2 Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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### 8 Exposure Controls/Personal Protection

#### 8.1 Exposure limits

##### Components with workplace control parameters

Component	CAS #	Value	Control parameters	Basis
isopropanol	67-63-0	TWAEV	400 ppm 983 mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	200 ppm	Canada. British Columbia OEL
		STEL	400 ppm	Canada. British Columbia OEL
		TWAEV	200 ppm	Canada. Ontario OELs
		STEV	400 ppm	Canada. Ontario OELs
		STEL	400 ppm 984 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	200 ppm 492 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	500 ppm 1230 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	400 ppm 983 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEV	500 ppm 1230 mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment. Upper Respiratory Tract irritation. Eye irritation. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen		
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment. Upper Respiratory Tract irritation. Eye irritation. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.		
		TWA	400 ppm 980 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	400 ppm 980 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		ST	500 ppm 1225 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		STEL	500 ppm 1250 mg/m <sup>3</sup>	UK. EH40 WEL – Workplace Exposure Limits
		TWA	400 ppm 999 mg/m <sup>3</sup>	UK. EH40 WEL – Workplace Exposure Limits

#### 8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

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### 8.3 Personal protective equipment

#### 8.3.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### 8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### 8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 8.3.4 General hygiene considerations

General industrial hygiene practice.

#### 8.3.5 Environmental exposure controls

Do not let product enter drains.

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## 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

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<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	No data available
<b>10.3 Possibility of hazardous reactions</b>	Vapours may form explosive mixture with air.
<b>10.4 Conditions to avoid</b>	Heat, flames and sparks.
<b>10.5 Incompatible materials</b>	No data available
<b>10.6 Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions - Carbon oxides

**11 Toxicological Information****11.1 Acute toxicity**

Oral:	No data available
Inhalation:	No data available
Dermal:	No data available
Other:	No data available

**11.2 Skin corrosion/irritation**

No data available

**11.3 Serious eye damage/eye irritation**

Eyes: no data available

**11.4 Respiratory and/or skin sensitization**

No data available

**11.5 Germ cell mutagenicity**

No data available

**11.6 Carcinogenicity**

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (isopropanol)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**11.7 Reproductive toxicity**

No data available

**11.8 Specific target organ toxicity - single exposure**

No data available

**11.9 Specific target organ toxicity - repeated exposure**

No data available

**11.10 Aspiration hazard**

No data available

**11.11 Potential health effects**

Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.

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Eyes: Causes eye irritation.

**11.12 Signs and symptoms of exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Isopropanol: Central nervous system depression, prolonged or repeated exposure can cause: nausea, dizziness, narcosis, drowsiness.

Kidney - Irregularities - Based on Human Evidence (isopropanol)

**11.13 RTECS #** No data available

**12 Ecological Information**

<b>12.1 Toxicity</b>	No data available
<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bioaccumulative potential</b>	No data available
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Other adverse effects</b>	No data available

**13 Disposal Considerations**
**13.1 Waste disposal method**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**13.2 Contaminated packaging**

Dispose of as unused product.

**14 Transport Information**

<b>14.1 UN number</b>	DOT	1219
	ADR/RID	1219
	IMDG	1219
	IATA	1219
<b>14.2 UN proper shipping name</b>	DOT	Isopropanol
	ADR/RID	ISOPROPANOL
	IMDG	ISOPROPANOL
	IATA	Isopropanol
<b>14.3 Transport hazard class(es)</b>	DOT	3
	ADR/RID	3
	IMDG	3
	IATA	3
<b>14.4 Packing group</b>	DOT	II
	ADR/RID	II
	IMDG	II
	IATA	II



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<b>14.5 Environmental hazards</b>	DOT	Marine pollutant: No
	ADR/RID	No
	IMDG	Marine pollutant: No
	IATA	No
<b>14.6 Special precautions</b>	No data available	

## 15 Regulatory Information

### 15.1 USA

#### **SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components:**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Component	CAS #	Revision Date
isopropanol	67-63-0	1987-01-01

#### **SARA 311/312:**

Isopropanol: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### **Massachusetts Right To Know Components**

Component	CAS #	Revision Date
isopropanol	67-63-0	1987-01-01

#### **Pennsylvania Right To Know Components**

Component	CAS #	Revision Date
isopropanol	67-63-0	1987-01-01
Water	7732-18-5	
Polyoxyethylene sorbitan monolaurate	9005-64-5	

#### **New Jersey Right To Know Components**

Component	CAS #	Revision Date
isopropanol	67-63-0	1987-01-01
Water	7732-18-5	
Polyoxyethylene sorbitan monolaurate	9005-64-5	

#### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### 15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

### 15.3 Canada

WHMIS Classification: B2 Flammable liquid  
 D2B Toxic Material Causing Other Toxic Effects



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This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

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### 16 Other Information

- 16.1 Prepared by:** Quality Control, STEMCELL Technologies Inc.
- 16.2 Revision:** N/A
- 16.3 Notice:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.
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