

**Gel Slick™ Solution**

Version 1.2

SDS Number: 000000012961

Revision Date: 2016.01.19

**SECTION 1. IDENTIFICATION**

Product name : Gel Slick™ Solution  
Material number : 50640  
Product code : 000000012961

**Manufacturer or supplier's details**

Company : **Lonza Ltd**  
Muenchensteinerstrasse 38  
CH-4002 Basel  
Switzerland  
Business Telephone +41 61 316 81 11

**Lonza Inc. - Rockland**  
191 Thomaston Street  
Rockland, ME 04841-2994  
USA  
Business Telephone: 1-207-594-3400

**Lonza Inc. - Walkersville**  
8830 Biggs Ford Road  
Walkersville, MD 21793-0127  
USA  
Business Telephone 1-301-898-7025

E-mail address : prodinfo@lonza.com  
Emergency telephone number : +41 61 313 94 94 (24h )

**Recommended use of the chemical and restrictions on use**

Recommended use : Scientific research and development

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids : Category 2

Eye irritation : Category 2A

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

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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.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Ethanol	64-17-5	93.00
Polydimethylsiloxane	63148-62-9	4.50
Propan-2-ol	67-63-0	2.00

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**SECTION 4. FIRST AID MEASURES**

- If inhaled : Remove to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Consult a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Call a physician immediately.
- If swallowed : If accidentally swallowed obtain immediate medical attention.  
Clean mouth with water and drink afterwards plenty of water.

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Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Dry powder  
Water spray  
Foam
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions
- General advice : Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Do not flush into surface water or sanitary sewer system.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid contact with skin and eyes.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Remove all sources of ignition.
- Recommended storage temperature : 18 - 26 °C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		REL	1,000 ppm	NIOSH/GUIDE

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			1,900 mg/m <sup>3</sup>	
		PEL	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA_TRANS
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	Z1A
		STEL	1,000 ppm	CAD ON OEL
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		REL	400 ppm 980 mg/m <sup>3</sup>	NIOSH/GUIDE
		STEL	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH/GUIDE
		PEL	400 ppm 980 mg/m <sup>3</sup>	OSHA_TRANS
		TWA	400 ppm 980 mg/m <sup>3</sup>	Z1A
		STEL	500 ppm 1,225 mg/m <sup>3</sup>	Z1A
		TWA	200 ppm	CAD ON OEL
		STEL	400 ppm	CAD ON OEL

**Hazardous components without workplace control parameters**

Components	CAS-No.
Polydimethylsiloxane	63148-62-9

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	acetone	Urine	Sampling time: End of shift at end of work week.	40 mg/l	ACGIH BEI

**Appropriate engineering controls**

**Engineering measures** : Provide sufficient air exchange and/or exhaust in work rooms.

**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : Wear suitable gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
No special protective equipment required.

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Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : gel

Colour : clear  
colourless

Odour : alcohol-like

Odour Threshold : no data available

pH : no data available

Melting point/freezing point : no data available

Boiling point/boiling range : 76 °C  
(33.3 hPa)

Flash point : 18 °C

Evaporation rate : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : 44 hPa (25 °C)

Relative vapour density : no data available

Relative density : no data available

Density : 0.8 g/cm<sup>3</sup> (25 °C)

Solubility(ies)  
Water solubility : completely miscible

Partition coefficient: n-  
octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under normal conditions.
Conditions to avoid	:	Keep away from heat and sources of ignition. Exposure to light.
Incompatible materials	:	Acids and bases Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure	:	Inhalation Ingestion Eyes Skin
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**Carcinogenicity**

<b>IARC</b>	Human carcinogen.	
	Ethanol	64-17-5
<b>OSHA</b>	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.	
<b>NTP</b>	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.	
<b>ACGIH</b>	Confirmed animal carcinogen with unknown relevance to humans.	
	Ethanol	64-17-5

**Further information**

Remarks: No data is available on the product itself.

**The following toxicological data refer to:****Ethanol** (CAS-No.: 64-17-5)

Information on likely routes of exposure	:	Inhalation Eyes
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**Acute toxicity**

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Acute oral toxicity (LD50) : > 5,000 mg/kg  
Species: Rat

Acute inhalation toxicity (LC50) : 39 g/m<sup>3</sup>  
Species: Mouse  
Exposure time: 4 h

**Skin corrosion/irritation**

Skin irritation : mild irritant  
Species: Rabbit

**Serious eye damage/eye irritation**

Eye irritation : moderate irritant  
Species: Rabbit

**Germ cell mutagenicity**

Genotoxicity in vitro : negative  
Ames test

negative  
Gene mutation, mouse lymphoma cells

**Carcinogenicity**

**IARC** Group 1: Carcinogenic to humans  
Group 1: Carcinogenic to humans

**NTP** Known To Be Human Carcinogen.

**ACGIH** A3: Confirmed animal carcinogen

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxicity to fish : Remarks: no data available

**Persistence and degradability**

Biodegradability : Remarks: no data available

**Bioaccumulative potential**

Bioaccumulation : Remarks: no data available

**Components:****Ethanol**

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Partition coefficient: n-octanol/water : log Pow: -0.3

**Propan-2-ol**

Partition coefficient: n-octanol/water : log Pow: 0.05 (25 °C)

**Mobility in soil**

Distribution among environmental compartments : Remarks: no data available

**Other adverse effects**

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data is available on the product itself.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations. Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.



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**SECTION 14. TRANSPORT INFORMATION****IATA**

**UN number** : 1170  
**Proper shipping name** : Ethanol solution  
**Transport hazard class** : 3  
**Packing group** : II  
Labels : 3  
**Environmental hazards** : no

**IMDG**

**UN number** : 1170  
**Proper shipping name** : Ethanol solution  
**Transport hazard class** : 3  
**Packing group** : II  
Labels : 3  
EmS Number 1 : F-E  
EmS Number 2 : S-D  
**Environmental hazards** : Marine pollutant: no

**ADR**

**UN number** : 1170  
**Proper shipping name** : ETHANOL SOLUTION  
**Transport hazard class** : 3  
**Packing group** : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
**Environmental hazards** : no

**RID**

**UN number** : 1170  
**Proper shipping name** : ETHANOL SOLUTION  
**Transport hazard class** : 3  
**Packing group** : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
**Environmental hazards** : no  
**Environmental hazards** : no

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**TDG**

**UN number** : 1170  
**Proper shipping name** : ETHANOL SOLUTION  
**Transport hazard class** : 3  
**Packing group** : II  
**Labels** : 3  
**Environmental hazards** : no

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act**

**SARA 311/312 Hazards** : Fire Hazard  
 Acute Health Hazard

**SARA 302**

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

**SARA 313**

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

Propan-2-ol	67-63-0	2 %
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**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

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This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

Ethanol	64-17-5
Propan-2-ol	67-63-0

**Pennsylvania Right To Know**

Ethanol	64-17-5
Propan-2-ol	67-63-0

**New Jersey Right To Know**

Ethanol	64-17-5
Propan-2-ol	67-63-0
Ethyl hydrogen sulphate	540-82-9

**California Prop 65**

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

**The components of this product are reported in the following inventories:**

- DSL : All ingredients in this product are in compliance with the Canadian Domestic Substance List.
- TSCA : For use only in products that are not regulated under TSCA (such as EPA FIFRA registered and FDA regulated products), or for research and development (R&D) by technically qualified individuals.
- EINECS : The formulation contains ELINCS substances.

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and

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may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.