

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 03.03.2015

Revision: 03.03.2015

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Lens Solution
- **Article number:** F24833-0000, F24835-0000, F24842-0001
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Glass Cleaner
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Bel-Art Products  
661 Route 23  
Wayne, NJ 07470  
(800) 423-5278
- **1.4 Emergency telephone number:** +1 (800) 457-4280

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).



Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

- 
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of component(s) of unknown toxicity

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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms



GHS07

### Signal word Warning

### Hazard-determining components of labelling:

sodium 2-(2-dodecyloxyethoxy)ethyl sulphate

### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

### Precautionary statements

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

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

### Hazard description:

### WHMIS-symbols:

D2B - Toxic material causing other toxic effects



### NFPA ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

### HMIS-ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

### HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

### 2.3 Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable.

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· vPvB: Not applicable.

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## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

### · Dangerous components:

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CAS: 67-63-0<br>EINECS: 200-661-7<br>Index number: 603-117-00-0   | propan-2-ol<br> Xi R36;  F R11<br>R67<br> Flam. Liq. 2, H225<br> Eye Irrit. 2, H319; STOT SE 3, H336 | 5-15% |
| CAS: 5131-66-8<br>EINECS: 225-878-4<br>Index number: 603-052-00-8 | 3-butoxypropan-2-ol<br> Xi R36/38<br> Skin Irrit. 2, H315; Eye Irrit. 2, H319                                                                                                                                                                                          | 1-5%  |
| CAS: 3088-31-1                                                    | sodium 2-(2-dodecyloxyethoxy)ethyl sulphate<br> Skin Irrit. 2, H315; Skin Sens. 1, H317                                                                                                                                                                                                                                                                 | 1-5%  |

### · Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.  
For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Dizziness

Coughing

Allergic reactions

Irritant to eyes.

Acidosis

· **Hazards** No further relevant information available.

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

Medical supervision for at least 48 hours.

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Treat skin and mucous membrane with antihistamine and corticoid preparations.

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information** Use large quantities of foam as it is partially destroyed by the product.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Product forms slippery surface when combined with water.
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Pick up mechanically.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
  - Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - Prevent formation of aerosols.
  - Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

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- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

### Ingredients with limit values that require monitoring at the workplace:

#### 67-63-0 propan-2-ol

|             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| PEL (USA)   | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm                                                             |
| REL (USA)   | Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 980 mg/m <sup>3</sup> , 400 ppm       |
| TLV (USA)   | Short-term value: 984 mg/m <sup>3</sup> , 400 ppm<br>Long-term value: 492 mg/m <sup>3</sup> , 200 ppm<br>BEI |
| EL (Canada) | Short-term value: 400 ppm<br>Long-term value: 200 ppm                                                        |
| EV (Canada) | Short-term value: 400 ppm<br>Long-term value: 200 ppm                                                        |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

### Ingredients with biological limit values:

#### 67-63-0 propan-2-ol

|           |                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------|
| BEI (USA) | 40 mg/L<br>Medium: urine<br>Time: end of shift at end of workweek<br>Parameter: Acetone (background, nonspecific) |
|-----------|-------------------------------------------------------------------------------------------------------------------|

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
Not required under normal conditions of use.  
For large spills, respiratory protection may be advisable.

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- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Liquid

Colour:

Whitish

- **Odour:**

Like alcohol

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

Melting point/Melting range:

Not Determined.

Boiling point/Boiling range:

82 °C (180 °F)

- **Flash point:**

Not applicable.

- **Flammability (solid, gaseous):**

Not applicable.

- **Auto/Self-ignition temperature:**

425 °C (797 °F)

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- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapour pressure at 20 °C (68 °F):** 43 hPa (32 mm Hg)
- **Density at 20 °C (68 °F):** 0,97 g/cm<sup>3</sup> (8,095 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitisation:** Sensitisation possible through skin contact.
- **Subacute to chronic toxicity:** No further relevant information available.

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- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

Toxic and/or corrosive effects may be delayed up to 24 hours.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Vapours have narcotic effect.

Irritating to eyes.

- **Sensitisation:** May cause an allergic skin reaction.

- **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **12.5 Results of PBT and vPvB assessment**

- **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**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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## SECTION 14: Transport information

- 14.1 UN-Number
  - DOT, ADR, ADN, IMDG, IATA
  - 14.2 UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA
  - 14.3 Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
  - Class
  - 14.4 Packing group
  - DOT, ADR, IMDG, IATA
  - 14.5 Environmental hazards:
  - Marine pollutant:
  - 14.6 Special precautions for user
  - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - UN "Model Regulation":
- Not Regulated
- Not Regulated
- Not Regulated
- Not Regulated
- Not applicable.
- Not applicable.
- 

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

### · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

### · Section 313 (Specific toxic chemical listings):

67-63-0 | propan-2-ol

### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

### · Proposition 65 (California):

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### · Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### · Carcinogenic Categories

#### · EPA (Environmental Protection Agency)

None of the ingredients are listed.

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|                                                             |             |   |
|-------------------------------------------------------------|-------------|---|
| · <b>IARC (International Agency for Research on Cancer)</b> |             |   |
| 67-63-0                                                     | propan-2-ol | 3 |

|                                                           |             |    |
|-----------------------------------------------------------|-------------|----|
| · <b>TLV (Threshold Limit Value established by ACGIH)</b> |             |    |
| 67-63-0                                                   | propan-2-ol | A4 |

|                                                                           |  |  |
|---------------------------------------------------------------------------|--|--|
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |  |  |
| None of the ingredients are listed.                                       |  |  |

|                                                  |  |  |
|--------------------------------------------------|--|--|
| · <b>Canada</b>                                  |  |  |
| · <b>Canadian Domestic Substances List (DSL)</b> |  |  |
| All ingredients are listed.                      |  |  |

|                                                           |  |  |
|-----------------------------------------------------------|--|--|
| · <b>Canadian Ingredient Disclosure list (limit 0.1%)</b> |  |  |
| None of the ingredients are listed.                       |  |  |

|                                                         |             |  |
|---------------------------------------------------------|-------------|--|
| · <b>Canadian Ingredient Disclosure list (limit 1%)</b> |             |  |
| 67-63-0                                                 | propan-2-ol |  |

|                                                                                                                                                                                                      |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| · <b>Other regulations, limitations and prohibitive regulations</b>                                                                                                                                  |  |  |
| This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. |  |  |

|                                                                                |  |  |
|--------------------------------------------------------------------------------|--|--|
| · <b>Substances of very high concern (SVHC) according to REACH, Article 57</b> |  |  |
| None of the ingredients are listed.                                            |  |  |

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R11 Highly flammable.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R67 Vapours may cause drowsiness and dizziness.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

**Sources**

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