

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

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

- **1.1 Product identifier**
- **Trade name: Shine-O-Glass v.3**
- **Article number:** 100597
- **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:** Window cleaner
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Theochem Laboratories
7373 Rowlett Park Drive
Tampa, FL 33610
Phone: 813-237-6463
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)



SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
The product is not classified as hazardous according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to the CLP regulation.
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard-determining components of labelling:** Not applicable.
- **Hazard statements** Not Regulated.
- **Precautionary statements** Not Regulated.
- **NFPA ratings (scale 0 - 4)**

	Health = 0 Fire = 0 Reactivity = 0
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- **HMIS-ratings (scale 0 - 4)**

	Health = 0
	Fire = 0
	Reactivity = 0

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.
(Cont'd. on page 2)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 1)

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Components:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol ----- ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319	<10%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol ----- ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 2,5%

· **Additional information:**

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **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

Headache
 Dizziness
 Nausea
 Gastric or intestinal disorders when ingested.
 Slight irritant effect on eyes.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

(Cont'd. on page 3)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 2)

- **Suitable extinguishing agents:**
The product is not flammable.
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**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Use personal protective equipment as required.
- **6.2 Environmental precautions**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Towel or mop up material and collect in a suitable container.
Larger spills may require adding sawdust or chalk and discarding the mixture.
Clean the affected area carefully; suitable cleaners are:
Warm water
- **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**
Use only in well ventilated areas.
Wash hands before breaks and at the end of work.
Keep out of reach of children.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
Store in cool, dry conditions in well sealed receptacles.
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Store away from foodstuffs.
- **7.3 Specific end use(s)** No further relevant information available.

(Cont'd. on page 4)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 3)

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm

111-76-2 2-butoxyethanol

IOELV (EU)	Short-term value: 246 mg/m ³ , 50 ppm Long-term value: 98 mg/m ³ , 20 ppm Skin
WEL (Great Britain)	Short-term value: 246 mg/m ³ , 50 ppm Long-term value: 123 mg/m ³ , 25 ppm Sk, BMGV
PEL (USA)	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m ³ , 20 ppm BEI

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BMGV (Great Britain)	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid
BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

· 8.2 Exposure controls

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Avoid breathing mist/vapours/spray.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
For large spills, respiratory protection may be advisable.

· Protection of hands:

Not required under normal conditions of use.

(Cont'd. on page 5)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 4)

Gloves are advised for repeated or prolonged contact.
Wear protective gloves to handle contents of damaged or leaking units.

- **Material of gloves** Rubber gloves
- **Eye protection:**



Safety glasses

- **Body protection:**
Not required under normal conditions of use.
Protection may be required for spills.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance

- | | |
|---------------------------|-----------------|
| · Form: | Liquid |
| · Colour: | Blue |
| · Odour: | Ammonia-like |
| · Odour threshold: | Not determined. |

- | | |
|---|-----------------|
| · pH-value: | 10.00 - 11.50 |
| · Melting point/freezing point: | Not determined. |
| · Initial boiling point and boiling range: | 100 °C (212 °F) |

- | | |
|-----------------------|---|
| · Flash point: | Not applicable - does not support sustained combustion. |
|-----------------------|---|

- | | |
|-------------------------------------|-----------------|
| · Flammability (solid, gas): | Not applicable. |
|-------------------------------------|-----------------|

- | | |
|--|-----------------|
| · Auto/Self-ignition temperature: | Not determined. |
|--|-----------------|

- | | |
|-------------------------------------|-----------------|
| · Decomposition temperature: | Not determined. |
|-------------------------------------|-----------------|

- | | |
|--------------------------------|-----------------|
| · Explosive properties: | Not determined. |
|--------------------------------|-----------------|

· Explosion limits

- | | |
|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

- | | |
|--|---------------------|
| · Vapour pressure at 20 °C (68 °F): | 23 hPa (17,3 mm Hg) |
|--|---------------------|

· Density:

- | | |
|----------------------------|-----------------|
| · Relative density: | 0.98-1.00 |
| · Vapour density: | Not determined. |
| · Evaporation rate: | Not determined. |

- | | |
|--|----------|
| · Solubility in / Miscibility with water: | Soluble. |
|--|----------|

- | | |
|--|-----------------|
| · Partition coefficient: n-octanol/water: | Not determined. |
|--|-----------------|

· Viscosity

- | | |
|-------------------|-----------------|
| · Dynamic: | Not determined. |
|-------------------|-----------------|

(Cont'd. on page 6)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 5)

Kinematic:

Not determined.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:** Based on available data, the classification criteria are not met.
 - **LD/LC50 values relevant for classification:**
- | 111-76-2 2-butoxyethanol | | |
|--------------------------|---------|-----------------------|
| Oral | LD50 | 1480 mg/kg (rat) |
| Dermal | LD50 | 1001-2000 mg/kg (rat) |
| Inhalative | LC50/4h | 450 ppm (rat) |
- **Primary irritant effect**
 - **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation:** Slight irritant effect on eyes.
 - **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
 - **Carcinogenic categories**

IARC (International Agency for Research on Cancer):

64-17-5 ethanol

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NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable routes of exposure:

Inhalation.
Eye contact.
Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

(Cont'd. on page 7)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 6)

- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential** Does not accumulate in organisms.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
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**
Smaller quantities can be disposed of with household waste.
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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|-------------------------------------|---------------|
| 14.1 UN-Number | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| 14.2 UN proper shipping name | |
| · DOT, ADR, IMDG, IATA | Not Regulated |

(Cont'd. on page 8)

Safety Data Sheet

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

Printing date: 13 March 2018

Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 7)

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|--|-----------------|
| · 14.3 Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
| · Class | Not Regulated |
| · 14.4 Packing group | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | 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):
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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
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111-76-2 2-butoxyethanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.
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64-17-5 ethanol

· Chemicals known to cause reproductive toxicity for females:
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None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:
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None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.
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64-17-5 ethanol

· EPA (Environmental Protection Agency)
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111-76-2 2-butoxyethanol		NL
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· IARC (International Agency for Research on Cancer)

64-17-5 ethanol		1
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(Cont'd. on page 9)

Safety Data Sheet

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

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Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 8)

· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients are listed.
· Canadian Domestic Substances List (DSL)
All ingredients are listed.
· Other regulations, limitations and prohibitive regulations
· Substances of very high concern (SVHC) according to REACH, Article 57
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.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

- **Abbreviations and acronyms:**

ADR: 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

EINECS: European Inventory of Existing Commercial Chemical Substances

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

(Cont'd. on page 10)

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

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Revision: 13 March 2018

Trade name: Shine-O-Glass v.3

(Cont'd. from page 9)

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