# 8

# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

# **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name Iso Glass Cleaner

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Glass/mirror cleaner

#### 1.3 Details of the supplier of the safety data sheet

B&B Blending, LLC 10963 Leroy Drive Northglenn CO 80233 United States

Telephone: 1.800.875.6320, 1.303.289.6320

e-mail: info@bbblending.com Website: bbblending.com

e-mail (competent person) btirrell@bbblending.com

#### 1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500

24 hr emergency information

#### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) not required

#### 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to GHS						
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes		
2-butoxy-1-ethanol	CAS No 111-76-2	3-<12	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	IOELV		

United States: en Page: 1 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

# Hazardous ingredients acc. to GHS Name of substance Identifier Wt% Classification acc. to GHS Notes Flam. Liq. 4 / H227

Notes

IOELV: Substance with a community indicative occupational exposure limit value

#### Hazardous ingredients

None. This mixture does not meet the criteria for classification.

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret. This mixture contains no GHS classified materials above their cut-off values.

#### **SECTION 4: First-aid measures**

#### 4.1 Description of first- aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

United States: en Page: 2 / 11

# BO DE PRINCIPA

# **Safety Data Sheet**

acc. to 29 CFR 1910.1200 App D

# **Iso Glass Cleaner**

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Control of the effects

Protect against external exposure, such as

Frost

#### 7.3 Specific end use(s)

See section 16 for a general overview.

United States: en Page: 3 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Nota tion	Sourc e
US	2-butoxyethanol	111-76-2	PEL	50	240						29 CFR 1910.1

Notation

Ceiling-C STEL ceiling value is a limit value above which exposure should not occur

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

000

otherwise specified)
TWA time-weighted avera

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified

#### Relevant DNELs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-butoxy-1-ethanol	111-76-2	DNEL	75 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2-butoxy-1-ethanol	111-76-2	DNEL	98 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

#### Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
2-butoxy-1-ethanol	111-76-2	PNEC	8.8 <sup>mg</sup> / <sub>I</sub>	aquatic organisms	freshwater	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	0.88 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	463 <sup>mg</sup> / <sub>I</sub>	microorganisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	34.6 <sup>mg</sup> / <sub>kg</sub>	benthic organisms	sediment	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	3.13 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	9.1 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

United States: en Page: 4 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Replaces version of: 2017-07-19 (GHS 7) Revision: 2019-06-14

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

#### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state	liquid
Color	yellow
Odor	characteristic

#### Other safety parameters

pH (value)	7-8 (25 °C)
Melting point/freezing point	-74.8 °C at 1 atm
Initial boiling point and boiling range	100 °C
Flash point	>100 °C at 101.3 kPa no flash
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	31.69 hPa at 25 °C
Density	0.98 – 0.99 <sup>g</sup> / <sub>cm³</sub> at 25 °C
Vapor density	this information is not available

United States: en Page: 5 / 11

acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Replaces version of: 2017-07-19 (GHS 7) Revision: 2019-06-14

#### Solubility(ies)

- Water solubility	miscible in any proportion
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#### Partition coefficient

attion coefficient				
- n-octanol/water (log KOW)	this information is not available			
Auto-ignition temperature	230 °C			
Viscosity	not determined			
Explosive properties	none			
Oxidizing properties	none			

#### 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2D (maximum permissible surface temperature on the equipment:
	215°C)

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Oxidizers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

United States: en Page: 6 / 11



acc. to 29 CFR 1910.1200 App D

# **Iso Glass Cleaner**

Version number: GHS 8.1 Replaces version of: 2017-07-19 (GHS 7) Revision: 2019-06-14

# Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
2-butoxy-1-ethanol	111-76-2	oral	1,746 <sup>mg</sup> / <sub>kg</sub>
2-butoxy-1-ethanol	111-76-2	dermal	1,100 <sup>mg</sup> / <sub>kg</sub>
2-butoxy-1-ethanol	111-76-2	inhalation: vapor	11 <sup>mg</sup> / <sub>l</sub> /4h

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
2-butoxy-1-ethanol	111-76-2	3	

#### Legend

Not classifiable as to carcinogenicity in humans

# Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

United States: en Page: 7 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations	

14.2 UN proper shipping name not assigned
 14.3 Transport hazard class(es) not assigned
 14.4 Packing group not assigned

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous

goods regulations

#### 14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

Not subject to transport regulations.

#### International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

United States: en Page: 8 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question National regulations (United States)

15.1.5 Toxic Substance Control Act (TSCA)

all ingredients are listed

0.1

# Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

#### **Clean Air Act**

none of the ingredients are listed

# 15.1.5 New Jersey Worker and Community Right to Know Act

0.5

#### Right to Know Hazardous Substance List

Name acc. to inventory	CAS No	Remarks	Classifications
2-BUTOXY ETHANOL (ETHANOL, 2-BUT- OXY-, BUTYL CELLOSOLVE)	111-76-2		CA F2

Legend

CA Carcinogenic

F2 Flammable - Second Degree

# 15.1.5 California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and 0.6 Toxic Enforcement Act of 1987

Proposition 65 List of chemicals				
Name acc. to inventory	CAS No	Conc.	Remarks	Type of the toxicity
methanol	67-56-1	0.000384 wt%		developmental

#### Industry or sector specific available guidance(s)

#### **NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	0	no significant risk to health
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

Chronic: chronic hazard
Flammability: flammability hazard
Health: health hazard

Personal protection: personal protective equipment (PPE) for normal use

Physical hazard: reactivity

United States: en Page: 9 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Version number: GHS 8.1 Revision: 2019-06-14 Replaces version of: 2017-07-19 (GHS 7)

#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

#### **National inventories**

Country	Inventory	Status
CA	DSL	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
US	TSCA	all ingredients are listed

Legend

DSL Domestic Substances List (DSL)
REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# SECTION 16: Other information, including date of preparation or last revision

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)	
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation	
Acute Tox.	Acute toxicity	
ATE	Acute Toxicity Estimate	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
Flam. Liq.	Flammable liquid	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	

United States: en Page: 10 / 11



acc. to 29 CFR 1910.1200 App D

# Iso Glass Cleaner

Revision: 2019-06-14

Version number: GHS 8.1 Replaces version of: 2017-07-19 (GHS 7)

> Abbr. Descriptions of used abbreviations IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) **ICAO** International Civil Aviation Organization **IMDG** International Maritime Dangerous Goods Code MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") NPCA-HMIS® III National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition **OSHA** Occupational Safety and Health Administration (United States) PBT Persistent, Bioaccumulative and Toxic PEL Permissible exposure limit **PNEC** Predicted No-Effect Concentration ppm Parts per million Skin Corr. Corrosive to skin

> > Irritant to skin
> > Short-term exposure limit

Time-weighted average

Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Classification procedure

Skin Irrit.

STEL

vPvB

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H227	Combustible liquid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

United States: en Page: 11 / 11