

Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

SECTION 1. IDENTIFICATION

Commercial Product : Glass Cleaner

Name

Product number : 0890925 SDS-Identcode : 10042290

Product Use Description : Cleaning agent Company : Wurth USA Inc. 93 Grant St.

07446 Ramsey, NJ

: prodsafe@wuerth.com

USA

Telephone : +1 201 825 27 10 Telefax : +1 201 825 16 43

Responsible/issuing

person

Emergency telephone

number

: +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 1

GHS Label element

Hazard pictograms :

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

Precautionary statements : **Prevention**:

P210 Keep away from heat/sparks/open flames/hot

surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition

source.

P251 Pressurized container: Do not pierce or burn, even

after use. **Storage:**



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
2-butoxyethanol	111-76-2	>= 1 - < 5
ethanol	64-17-5	>= 1 - < 5
propane	74-98-6	>= 1 - < 5
butane	106-97-8	>= 1 - < 5
morpholine	110-91-8	>= 0.1 - < 1
isopropanol	67-63-0	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice : When symptoms persist or in all cases of doubt seek

medical advice. Move out of dangerous area. If you feel unwell, seek medical advice (show the label where possible). Take off contaminated clothing and shoes immediately. Never give anything by mouth to an

unconscious person.

Inhalation : If breathed in, move person into fresh air. In the case of

inhalation of aerosol/mist consult a physician if necessary.

Skin contact : Immediately flush skin with large amounts of water. Do

NOT use solvents or thinners.

Eye contact : If easy to do, remove contact lens, if worn. In the case of

contact with eyes, rinse immediately with plenty of water

and seek medical advice.

Ingestion : If swallowed, DO NOT induce vomiting. If symptoms

persist, call a physician. If a person vomits when lying on

his back, place him in the recovery position.

Notes to physician

Treatment : Treat symptomatically and supportively.



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

SECTION 5. FIREFIGHTING MEASURES

Form : aerosol

Suitable extinguishing : Foam

media Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical Water mist

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and

spread fire.

Hazardous decomposition products may be formed

under fire conditions (see section 10).

Exposure to decomposition products may be a hazard to

health.

Special protective equipment for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Use personal protective equipment.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe

fumes.

Use water spray to cool unopened containers.

If the temperature rises there is danger of the vessels

bursting due to the high vapor pressure.

Exposure to decomposition products may be a hazard to

health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Refer to protective measures listed in sections 7 and 8.



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapour or mist.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains

inform respective authorities.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica

gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : For personal protection see section 8.

Limit the stocks at work place.
Use only in well-ventilated areas.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.

Do not spray on a naked flame or any incandescent

material.

Advice on protection against fire and explosion

: Vapours are heavier than air and may spread along

floors.

Vapours may form explosive mixtures with air. Electrical equipment should be protected to the

appropriate standard.

Do not smoke.

Keep away from heat and sources of ignition.

Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open

by force or throw into fire even after use. Do not spray on

flames or red-hot objects.

Keep containers tightly closed in a dry, cool and well-



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

ventilated place.

Protect from frost, heat and sunlight.

Please observe the storage instructions for aerosols!

Advice on common

storage

: Incompatible with oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Туре:	Value	Update
2-butoxyethanol	111-76-2	ACGIH	TWA	20 ppm	2013-03-01
		OSHA Z-1	TWA	50 ppm 240 mg/m3	1997-08-04
		NIOSH REL	TWA	5 ppm 24 mg/m3	2005-09-01
		OSHA PO	TWA	25 ppm 120 mg/m3	1989-01-19
ethanol	64-17-5	OSHA Z-1	TWA	1,000 ppm 1,900 mg/m3	1997-08-04
		NIOSH REL	TWA	1,000 ppm 1,900 mg/m3	2013-10-08
		OSHA PO	TWA	1,000 ppm 1,900 mg/m3	1989-01-19
		ACGIH	STEL	1,000 ppm	2013-03-01
propane	74-98-6	OSHA Z-1	TWA	1,000 ppm 1,800 mg/m3	1997-08-04
		NIOSH REL	TWA	1,000 ppm 1,800 mg/m3	2013-10-08
		OSHA PO	TWA	1,000 ppm 1,800 mg/m3	1989-01-19
butane	106-97-8	NIOSH REL	TWA	800 ppm 1,900 mg/m3	2013-10-08
		OSHA PO	TWA	800 ppm 1,900 mg/m3	1989-01-19
		ACGIH	STEL	1,000 ppm	2013-03-01

Engineering measures : Provide adequate ventilation.

Eye protection : Safety glasses

Skin and body protection : impervious clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

Product contains low-boiling liquids. Respiratory

protective equipment must be air supplied respirators.

Hygiene measures : Do not inhale aerosol.

Handle in accordance with good industrial hygiene and

safety practice.

General industrial hygiene practice.

Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol Physical state : aerosol

Colour : colourless
Odour : characteristic
Odour Threshold : No data available
Flash point : No data available
Ignition temperature : No data available
Thermal decomposition : No data available

Lower explosion limit : 1.1 %(V)

Upper explosion limit : 20 %(V)

Flammability : Extremely flammable aerosol.

Molecular weight : No data available pH : Not applicable

Boiling point/boiling range : -42.22 - 168.89 °C(-44.00 - 336.00 °F)

Not applicable

Vapour pressure : No data available

Relative vapour density : No data available

Evaporation rate : No data available

Density : 0.96 g/cm³



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

: No data available

Relative density : No data available
Bulk density : No data available
Water solubility : completely soluble

Partition coefficient: n-

octanol/water

Solubility in other solvents : No data available Viscosity, dynamic : No data available Viscosity, kinematic : No data available

Volatile organic

compounds (VOC) content

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : Oxidizing agents

Hazardous decomposition

products

composition : Carbon monoxide

: 11.2 %

Hazardous reactions : Vapours may form explosive mixtures with air.

Note: No decomposition if stored and applied as

directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute dermal toxicity : Acute toxicity estimate

Dose: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate

Exposure time: 4 h Dose: > 40 mg/l

Method: Calculation method

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity : No data is available on the product itself.

Teratogenicity : No data is available on the product itself.

Further information : 2-Butoxy-ethanol and its acetate (2-Butoxy-ethyl-acetate)



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Pr

Print Date 08/19/2014

are skin resorptive and cause harmful effects to the blood.

Component:

2-butoxyethanol 111-76-2 <u>Acute oral toxicity:</u> LD50 Rat

Dose: 1,746 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Dose: > 1,000 - 2,000 mg/kg

<u>Acute inhalation toxicity:</u> LC50 Dose: > 10 - 20 mg/lExposure time: 4 h

<u>Skin irritation:</u> Rabbit Result: irritating

Method: Directive 67/548/EEC, Annex V, B.4.

Eye irritation: Rabbit

Result: Irritation to eyes, reversing within 7 days

Method: OECD Test Guideline 405

Carcinogenicity: Not classifiable as a human

carcinogen.

Reproductive toxicity: No toxicity to reproduction Teratogenicity: Animal testing did not show any effects

on foetal development.

butane 106-97-8 <u>Acute inhalation toxicity:</u> LC50 Mouse

Dose: 1,237 mg/l 520400 ppm

Exposure time: 2 h

morpholine 110-91-8 <u>Acute oral toxicity:</u> LD50 Rat

Dose: 1,900 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Dose: > 1,000 - 2,000 mg/kg

<u>Acute inhalation toxicity:</u> LC50 Dose: > 10 - 20 mg/IExposure time: 4 h

<u>Skin irritation:</u> Rabbit Result: Causes burns.

Method: OECD Test Guideline 404

Carcinogenicity: Animal testing did not show any

carcinogenic effects.

Mutagenicity: In vivo tests did not show mutagenic

effects

Reproductive toxicity: No toxicity to reproduction Teratogenicity: Animal testing did not show any effects



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

on foetal development.

Sensitisation: Does not cause skin sensitisation.

isopropanol 67-63-0 Acute oral toxicity: LD50 Rat

Dose: 5,045 mg/kg

Acute dermal toxicity: LD50 Rabbit

Dose: 12,800 mg/kg

Acute inhalation toxicity: LC50 Rat Dose: 46.5 mg/lExposure time: 4 h

Eye irritation: Result: Irritating to eyes.

Carcinogenicity:

ACGIH

2-butoxyethanol 111-76-2

64-17-5 ethanol

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.

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.

No component of this product present at levels greater **IARC**

than or equal to 0.1% is identified as probable, possible or

confirmed human carcinogen by IARC.

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound: not included

halogens (AOX)

Volatile organic

compounds (VOC)

: 11.2 %

content

Additional ecological

: The product should not be allowed to enter drains, water

information courses or the soil.



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

Component:

2-butoxyethanol 111-76-2 <u>Toxicity to fish:</u>

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 1,474 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 1,550 mg/l Exposure time: 48 h

Toxicity to algae:

EC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: 911 mg/l Exposure time: 72 h

Toxicity to algae:

NOEC

Species: Pseudokirchneriella subcapitata (green algae)

Dose: 88 mg/l Exposure time: 72 h

morpholine 110-91-8 <u>Toxicity to fish:</u>

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 380 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 45 mg/l Exposure time: 48 h

Toxicity to algae:

EC50

Species: Selenastrum capricornutum (green algae)

Dose: 28 mg/l Exposure time: 96 h

isopropanol 67-63-0 <u>Toxicity to fish:</u>

LC50

Species: Pimephales promelas (fathead minnow)

Dose: 9,640 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

FC.50

Species: Daphnia magna (Water flea)

Dose: 13,299 mg/l



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

Exposure time: 48 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

ID No : UN 1950
Proper shipping name : Aerosols
Class : 2.1
Labels : 2.1
Emergency Response : 126

Guidebook Number

TDGR

ID No : UN 1950 Proper shipping name : AEROSOLS

Class : 2.1 Labels : 2.1

ICAO/IATA-DGR

ID No : UN 1950

Proper shipping name : Aerosols, flammable

Class : 2.1 ICAO-Labels : 2.1 Packing instruction (cargo : 203

aircraft)

Packing instruction : 203

(passenger aircraft)

Packing instruction : Y203

(passenger aircraft)

Environmentally hazardous: no

IMDG-Code

ID No : UN 1950
Description of the goods : AEROSOLS

Class : 2.1



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

IMDG-Labels: 2.1EmS Number 1: F-DEmS Number 2: S-U

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Sudden Release of Pressure Hazard

Fire Hazard

CERCLA Reportable

Quantity

: This material does not contain any components with a

CERCLA RQ.

EPCRA_313 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA

Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification

Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

EPCRA_302 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA

Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

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

PENN RTKUS. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code

Chap. 301-323)

<u>Components</u>	CAS-No.
water	7732-18-5
2-butoxyethanol	111-76-2
ethanol	64-17-5
propane	74-98-6
butane	106-97-8
isopropanol	67-63-0

MASS RTK

U.S. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105)

Code of Massachusetts Regulations Section 670.000)

<u>Components</u>	CAS-No.
2-butoxyethanol	111-76-2
ethanol	64-17-5



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

propane	74-98-6
butane	106-97-8

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

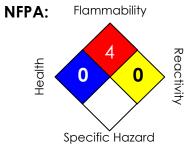
<u>Components</u>	CAS-No.
water	7732-18-5
2-butoxyethanol	111-76-2
ethanol	64-17-5
propane	74-98-6
butane	106-97-8

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.

SECTION 16. OTHER INFORMATION

Further information



HMIS III:

HEALTH	0
FLAMMABILITY	4
PHYSICAL	0

0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme

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



Glass Cleaner

Version 3.0 Revision Date 08/15/2014 Print Date 08/19/2014

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