

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

KEYSTONE GLASS & SURFACE SPRAY

Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : KEYSTONE GLASS & SURFACE SPRAY

Product code : 123104E

Use of the

Glass Cleaner

Substance/Mixture

Substance type:

: Mixture

For professional users only.

Product dilution information : No dilution information provided.

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

Identified uses : Glass cleaner. Manual process

Glass cleaner. Spray and wipe manual process

Recommended restrictions

on use

: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+ 44 (0)1606 74488 ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone

: +441618841235

number

+32-(0)3-575-5555 Trans-European

Poison Information Centre

telephone number

: For medical professionals only: 0344 892 0111

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Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Additional Labelling:

mixtures

Special labelling of certain : Safety data sheet available on request.

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
ethanol	64-17-5 200-578-6 01-2119457610-43	Flammable liquids Category 2; H225 Serious eye damage/eye irritation Category 2; H319 Serious eye damage/eye irritation Category 2 50 - 100 %	>= 1 - < 10
3-butoxypropan-2-ol	5131-66-8 225-878-4 01-2119475527-28	Skin irritation Category 2; H315 Eye irritation Category 2; H319	>= 1 - < 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

Treatment : No specific measures identified.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

5.3 Advice for firefighters

for firefighters

Special protective equipment: Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

: Remove all sources of ignition. Refer to protective measures listed

in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Eliminate all ignition sources if safe to do so. Stop leak if safe to

do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain

material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

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7.1 Precautions for safe handling

Advice on safe handling : Keep away from fire, sparks and heated surfaces. Take necessary

action to avoid static electricity discharge (which might cause

ignition of organic vapours).

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep away from heat and sources of ignition. Protect from frost, heat and sunlight. Store at room temperature in the original container. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled

containers.

Storage temperature : -5 °C to 40 °C

7.3 Specific end uses

Specific use(s) : Glass cleaner. Manual process

Glass cleaner. Spray and wipe manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	UKCOSSTD

DNEL

triethanolamine	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term systemic effects	
	Value: 5 mg/m3	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term local effects	
	Value: 5 mg/m3	
	3	
	End Use: Workers	
	Exposure routes: Dermal	
	Potential health effects: Long-term systemic effects	
	Value: 6.3 mg/kg bw/day	
	End Use: Workers	
	Exposure routes: Dermal Potential health effects: Long-term local effects	
	Value: 0.14 mg/cm2	
	value. 0.17 mg/om2	
	End Use: Consumer use	
	Exposure routes: Inhalation	

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Potential health effects: Long-term systemic effects

Value: 1.25 mg/m3

End Use: Consumer use Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 1.25 mg/m3

End Use: Consumer use Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 2.66 mg/kg bw/day

End Use: Consumer use Exposure routes: Dermal

Potential health effects: Long-term local effects

Value: 0.07 mg/cm2

End Use: Consumer use Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 3.3 mg/kg bw/day

PNEC

triethanolamine	:	Fresh water Value: 0.32 mg/l
		value. 0.32 mg/l
		Marine water Value: 0.032 mg/l
		value. 0.032 mg/i
		Intermittent use/release
		Value: 5.12 mg/l
		Fresh water sediment
		Value: 1.7 mg/kg
		Marine sediment
		Value: 0.17 mg/kg
		Sewage treatment plant Value: 10 mg/l
		value. 10 mg/i
		Soil
		Value: 0.151 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands before breaks and immediately after handling the

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product.

Eye/face protection (EN 166) : No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : clear, colourless

Odour : alcohol-like

pH : 8.6 - 9.6, 100 %

Flash point : 56 °C, Does not sustain combustion.

Odour Threshold : Not applicable and/or not determined for the mixture

Melting point/freezing point : Not applicable and/or not determined for the mixture

Welling point/freezing poin

Initial boiling point and

boiling range

: > 100 °C

Evaporation rate : Not applicable and/or not determined for the mixture

Flammability (solid, gas) : Not applicable and/or not determined for the mixture

Upper explosion limit : Not applicable and/or not determined for the mixture

Lower explosion limit : Not applicable and/or not determined for the mixture Vapour pressure : Not applicable and/or not determined for the mixture

Relative vapour density : Not applicable and/or not determined for the mixture

Relative density : 0.9 - 1.0 Water solubility : soluble

Solubility in other solvents : Not applicable and/or not determined for the mixture

Partition coefficient: n-

octanol/water

: Not applicable and/or not determined for the mixture

Auto-ignition temperature : Not applicable and/or not determined for the mixture

Thermal decomposition : Not applicable and/or not determined for the mixture

Viscosity, kinematic : Not applicable and/or not determined for the mixture

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Explosive properties : Not applicable and/or not determined for the mixture Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

In the event of fire, see Section 5

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Product

Acute oral toxicity : There is no data available for this product.

Acute inhalation toxicity : There is no data available for this product.

: There is no data available for this product. Acute dermal toxicity

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

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Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : ethanol LD50 rat: 10,470 mg/kg

3-butoxypropan-2-ol LD50 rat: 2,500 mg/kg

Components

Acute inhalation toxicity : ethanol 4 h LC50 rat: 117 mg/l

Test atmosphere: vapour

Components

Acute dermal toxicity : ethanol LD50 rabbit: 15,800 mg/kg

3-butoxypropan-2-ol LD50 rat: 2,193 mg/kg

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

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Product

Toxicity to fish : no data available Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : ethanol96 h LC50 Pimephales promelas (fathead minnow): > 100

mg/l

Components

aquatic invertebrates

Toxicity to daphnia and other : ethanol48 h EC50 Aquatic Invertebrate: 857 mg/l

3-butoxypropan-2-ol48 h EC50: > 1,000 mg/l

12.2 Persistence and degradability

Product

no data available

Components

Biodegradability : ethanolResult: Readily biodegradable.

3-butoxypropan-2-olResult: Readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

: Where possible recycling is preferred to disposal or incineration. If Product

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recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.

Diluted product can be flushed to sanitary sewer if regulations permit.

Contaminated packaging : Dispose of in accordance with local, state, and federal regulations.

Guidance for Waste Code selection

: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : Not dangerous goods14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for
Not dangerous goods
Not dangerous goods

user

Air transport (IATA)

14.1 UN number : Not dangerous goods14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for
14.6 Not dangerous goods
14.6 Not dangerous goods

user

Sea transport (IMDG/IMO)

14.1 UN number : Not dangerous goods14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for
14.6 Not dangerous goods
14.6 Not dangerous goods
14.6 Special precautions for
14.6 Special precautions for
15. Not dangerous goods
16. Not dangerous goods
17. Not dangerous goods
18. Not dangerous goods
19. Not dangerous goods
19. Not dangerous goods
19. Not dangerous goods
19. Not dangerous goods

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user

14.7 Transport in bulk : Not dangerous goods according to Annex II of

MARPOL 73/78 and the IBC

Code

Section: 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive : Not applicable. 2012/18/EU of the European Parliament and of the Council on the control of major-

accident hazards involving dangerous substances.

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification			
Not a hazardous substance or mixture.	Calculation method			

Full text of H-Statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory

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concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

Annex: Exposure Scenarios

Exposure Scenario: Glass cleaner. Manual process

Life Cycle Stage : Widespread use by professional workers

Product category : PC35 Washing and cleaning products (including solvent based

products)

Contributing scenario controlling environmental exposure for:

Environmental release : **ERC8a** Wide dispersive indoor use of processing aids in open

category systems

Daily amount per site : 7.5 kg

Type of Sewage Treatment : Municipal sewage treatment plant

Plant

Contributing scenario controlling worker exposure for:

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PROC10 Process category Roller application or brushing

Indoor

Exposure duration 480 min

Operational conditions and

risk management measures

Local Exhaust Ventilation is not required

General ventilation 1 Ventilation rate per hour

Skin Protection see section 8

Respiratory Protection see section 8

Contributing scenario controlling worker exposure for:

PROC8a Process category Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at non-

dedicated facilities

Exposure duration 60 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

1 General ventilation Ventilation rate per hour

Skin Protection see section 8 **Respiratory Protection** see section 8

Exposure Scenario: Glass cleaner. Spray and wipe manual process

Life Cycle Stage Widespread use by professional workers

Washing and cleaning products (including solvent based Product category **PC35**

products)

Contributing scenario controlling environmental exposure for:

Environmental release

category

ERC8a

Wide dispersive indoor use of processing aids in open

systems

Daily amount per site 7.5 kg

Type of Sewage Treatment

Plant

Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

PROC10 Roller application or brushing Process category

Exposure duration 480 min

Operational conditions and Indoor

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risk management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : **PROC11** Non industrial spraying

Exposure duration : 60 min

Operational conditions and

risk management measures

: Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

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