SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of:
Ordinance on Protection against Dangerous Substances and Preparations (Chemicals
Ordinance, ChemO) of 5 June 2015 (As amended)

Issuing Date 15-Aug-2022 Revision Date 22-Aug-2022 Revision Number 2

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

1.1. Product identifier

Product Code(s) 1702T, EB1701T

Product Name CRL Trigger Spray Glass Cleaner

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Glass cleaners

Uses advised against

Use only for intended applications

1.3. Details of the supplier of the safety data sheet

Supplier

CRL Of EUROPE GMBH - DEUTSCHLAND

Boschstrasse 7 D-74360 Ilsfeld Deutschland

Tel: +49 (0)7062 915 93 15 Kostenlose Tel: 00 800 0421 6144 Fax: +49 (0)7062 915 93 16

Kostenlose Fax: 00 800 0262 3299

For further information, please contact

E-mail address crl@crlaurence.de

1.4. Emergency telephone number

Emergency telephone 00 800 0421 6144 Monday – Friday 08:00 – 17:00

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids Category 3 - (H226)

2.2. Label elements



Signal word Warning

Hazard statements

H226 - Flammable liquid and vapour

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P233 - Keep container tightly closed

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

Detergent Labelling: < 5% perfumes, Contains Sodium Nitrite

2.3. Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
2-Butoxyethanol 111-76-2	5 - 10	No data available	203-905-0	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-	-	-
Propan-2-ol 67-63-0	1 - 5	No data available	200-661-7	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture

based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg			
			hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
2-Butoxyethanol 111-76-2	1200 ⁺ 470	435	No data available	3 + 2.1749 2.3489	No data available
Propan-2-ol 67-63-0	1870	4059	No data available	30.1303	No data available

⁺ This value is the harmonised acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonised ATE value must be used when calculating the acute toxicity estimate (ATEmix) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Ingestion Rinse mouth.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Prolonged contact may cause redness and irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Specific/special fire-fighting Fires need to be assessed to determine appropriate protocols and safety measures for

measures

firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. ELIMINATE all ignition sources (no smoking, flares,

sparks or flames in immediate area). Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Avoid contact with skin and eyes. Use personal protection equipment. Avoid breathing vapours or mists. Use with local exhaust ventilation. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

Use according to package label instructions.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks

and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a dry, cool and well-ventilated

meters and state closerolty). Neep contamers again, closed in a dry, cool and went ventuals

place. Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

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7.3. Specific end use(s)

Specific use(s).

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Switzerland
2-Butoxyethanol	TWA: 20 ppm	TWA: 10 ppm
111-76-2	TWA: 98 mg/m ³	TWA: 49 mg/m ³
	STEL: 50 ppm	STEL: 20 ppm
	STEL: 246 mg/m ³	STEL: 98 mg/m ³
	*	H*
Propan-2-ol	-	TWA: 200 ppm
67-63-0		TWA: 500 mg/m ³
		STEL: 400 ppm
		STEL: 1000 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Switzerland
2-Butoxyethanol	-	150 mg/g creatinine (urine -
111-76-2		2-Butoxyacetic acid (after hydrolysis)
		end of shift, and after several shifts (for
		long-term exposures))
Propan-2-ol	-	25 mg/L (urine - Acetone end of shift)
67-63-0		0.4 mmol/L (urine - Acetone end of shift)
		25 mg/L (whole blood - Acetone end of
		shift)
		0.4 mmol/L (whole blood - Acetone end
		of shift)

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks

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and immediately after handling the product.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid
Colour Colourless
Odour Slight

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point < 0 °C Initial boiling point and boiling range> 100 °C

Flammability No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point 50 - 65 °C

Autoignition temperature

Decomposition temperature

PH

No data available

No data available

No data available

Diluted solution

pH 7 - 8 Diluted solution
pH (as aqueous solution)
Kinematic viscosity No data available
No data available

Dynamic viscosity

No data available

Water solubility Soluble in water

Solubility(ies)No data availablePartition coefficientNo data availableVapour pressureNo data available

Relative density 0.985 @15°C

Bulk density No data available
Liquid Density No data available
Vapour density No data available

Particle characteristics

Particle SizeNo data availableParticle Size DistributionNo data available

9.2. Other information

VOC Maximum 32 g/l

9.2.1. Information with regards to physical hazard classes

Not applicable

Explosive properties Not considered to be explosive

Oxidising properties Does not meet the criteria for classification as oxidizing

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Can react vigorously with oxidizers.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information .

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact May cause irritation. Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 13,708.80 mg/kg
ATEmix (dermal) 6,176.40 mg/kg
ATEmix (inhalation-dust/mist) 7.4776 mg/l
ATEmix (inhalation-vapour) 139.80 mg/l

Component Information

_	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
	2-Butoxyethanol	= 470 mg/kg (Rat)	= 435 mg/kg(Rabbit)	= 450 ppm (Rat)4 h
				= 486 ppm (Rat)4 h
	Propan-2-ol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat)6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation. Classification based on data available for ingredients.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
2-Butoxyethanol	-	LC50: =1490mg/L (96h,	-	EC50: >1000mg/L (48h,
		Lepomis macrochirus)		Daphnia magna)
		LC50: =2950mg/L (96h,		
		Lepomis macrochirus		
Propan-2-ol	EC50: >1000mg/L	LC50: =9640mg/L (96h,	-	EC50: =13299mg/L
	(96h, Desmodesmus	Pimephales promelas)		(48h, Daphnia magna)
	subspicatus)	LC50: =11130mg/L (96h,		
	EC50: >1000mg/L	Pimephales promelas)		
	(72h, Desmodesmus	LC50: >1400000µg/L		
	subspicatus)	(96h, Lepomis		
		macrochirus)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
2-Butoxyethanol	0.81

Propan-2-ol	0.05

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
2-Butoxyethanol	The substance is not PBT / vPvB
Propan-2-ol	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

Waste codes / waste designations

according to EWC / AVV

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

SECTION 14: Transport information

MDG

14.1 UN number or ID number UN1993

14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Propan-2-ol)

14.3 Transport hazard class(es) 3

14.4 Packing group

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Propan-2-ol), 3, III, (50°C C.C.)

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions 223, 274, 955 **EmS-No** F-E, S-E

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

14.1 UN number UN1993

14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Propan-2-ol)

14.3 Transport hazard class(es) 3
14.4 Packing group

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Propan-2-ol), 3, III

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions None Classification code F1

<u>ADR</u>

14.1 UN number or ID number UN1993

14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Propan-2-ol)

14.3 Transport hazard class(es) 3 14.4 Packing group III

Description UN1993, FLAMMABLE LIQUID, N.O.S. (Propan-2-ol), 3, III

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions 274, 601
Classification code F1
Tunnel restriction code (D/E)

IATA

14.1 UN number or ID number UN1993

14.2 UN proper shipping name Flammable liquid, n.o.s. (Propan-2-ol)

14.3 Transport hazard class(es) 3
14.4 Packing group ||||

Description UN1993, Flammable liquid, n.o.s. (Propan-2-ol), 3, III

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special ProvisionsA3ERG Code3LNote:None

SECTION 15: Regulatory information

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

National regulations

Chemical name	Volatile Organic Compounds (VOCs) -	Volatile Organic Compounds (VOCs) -
	Group I	Group II
2-Butoxyethanol - 111-76-2	X	
Propan-2-ol - 67-63-0	X	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
2-Butoxyethanol - 111-76-2	75.	
Propan-2-ol - 67-63-0	75.	

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

	Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
I	Propan-2-ol - 67-63-0	1 - Human hygiene
		2 - Disinfectants and algaecides not intended for direct
		application to humans or animals
		4 - Food and feed area disinfectant

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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.

End of Safety Data Sheet