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Cleaning Solution

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	Weight %	CAS No.	EC-No	Classification (Reg. 1272/2008)	Hazard Statements
Water	60-80	7732-18-5	231-791-2	--	--
Glycerol	10-20	56-81-5	200-289-5	--	--
Propylene glycol	10-20	57-55-6	200-338-0	--	--
Organic solvent	1-<10	Proprietary	Listed	Eye Irrit. 2	H319
Triethylene glycol	1-5	112-27-6	203-953-2	--	--
Triethanolamine	<1	102-71-6	203-049-8	--	--
1,2-Benzisothiazolin-3-one	<0.05	2634-33-5	220-120-9	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1	H302 H315 H318 H317 H400

Full text of H- statements: see section 16

Note

"--" indicates no classification or hazard statements apply.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes, Get medical attention if irritation develops and persists
Skin contact	Rinse skin with water/shower, Get medical attention if irritation develops and persists
Inhalation	Move to fresh air, If symptoms persist, call a doctor
Ingestion	Rinse mouth, If swallowed, call a poison control centre or doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

Acute toxicity	
Eyes	May cause slight irritation
Skin	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Inhalation	No known effect based on information supplied
Ingestion	No information available
Chronic effects	
Chronic toxicity	No known effects under normal use conditions

4.3 Indication of immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically
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5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Dry chemical, Foam, Carbon dioxide (CO ₂)
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire

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5.2 Special hazards arising from the substance or mixture

No information available

Hazardous combustion products Thermal decomposition can lead to release of irritating gases and vapours

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information

Flash point No information available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes, Use personal protective equipment, Ensure adequate ventilation, For personal protection see section 8

6.2 Environmental precautions

No special environmental precautions required

6.3 Methods and material for containment and cleaning up

Methods for containment	Prevent entry into waterways, sewers, basements or confined areas
Methods for cleaning up	Soak up with inert absorbent material, Pick up and transfer to properly labelled containers

6.4 Reference to other sections

See section 12 for additional ecological information
See Section 13 for additional information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

When using, do not eat, drink or smoke, For personal protection see section 8

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place, Protect from sunlight and store in well-ventilated place

7.3 Specific end uses

Ink jet printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits For country specific exposure limits see Section 16

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Chemical Name	ACGIH TLV	European Union
Triethanolamine	TWA: 5 mg/m ³	

8.2 Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Avoid contact with eyes, If splashes are likely to occur, wear:, Safety glasses with side-shields
Hand protection Protective gloves.
Skin and body protection No special protective equipment required
Respiratory protection No special protective equipment required.

Environmental Exposure Controls

Environmental Exposure Controls Prevent product from entering drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aqueous solution	Odour	Slight
Physical state	Liquid	Colour	Colourless
pH	7-9		
Flash point	No information available		
Melting / Freezing Point	Not applicable		
Boiling point/boiling range	No information available		
Evaporation rate	No information available		
Flammability	Not flammable		
Flammability Limits in Air	No information available		
Explosive Limits	No data available		
Vapour pressure	No information available		
Vapour density	No information available		
Specific gravity			
Water solubility	Soluble in water		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	Not determined		
Viscosity	2-5 mPa.s		
Explosive properties	Not explosive		
Oxidising properties	Not applicable		

9.2 Other information

None

10. STABILITY AND REACTIVITY

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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

Hazardous reactions None under normal processing
Hazardous polymerisation Hazardous polymerisation does not occur

10.4 Conditions to avoid

Extremes of temperature and direct sunlight

10.5 Incompatible Materials

No information available

10.6 Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Product Information No acute toxicity information is available for this product.

Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Glycerol	12600 mg/kg (Rat)	10 g/kg (Rabbit)	570 mg/m ³ (Rat) 1 h
Propylene glycol	20 g/kg (Rat)	20800 mg/kg (Rabbit)	
Triethylene glycol	17 g/kg (Rat)	20 mL/kg (Rabbit)	3.9 mg/L (Rat) 4 h
Triethanolamine	4190 mg/kg (Rat)	20 mL/kg (Rabbit) 16 mL/kg (Rat)	
1,2-Benzisothiazolin-3-one	1020 mg/kg (Rat)		

Chronic toxicity

Carcinogenicity Contains no ingredient listed as a carcinogen

Other toxic effects

Sensitisation Contains a chemical that can cause an allergic reaction in susceptible people
Target organ effects No information available

Aspiration Hazard Not applicable

11.2 Information on other hazards

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

On available data, the mixture / preparation is not harmful to aquatic life

12.2 Persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulation is unlikely

12.4 Mobility in soil

Soluble in water

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

12.6 Endocrine disrupting properties

Presents little or no hazard to the environment

12.7 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Disposal Method No special precautions are needed in handling this material

EWC Waste Disposal No. 08 03 08

14. TRANSPORT INFORMATION

14.1 UN/ID No

Not regulated

14.2 Proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not classified

14.4 Packing Group

Not applicable

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14.5 Environmental hazards

Presents little or no hazard to the environment

14.6 Special precautions for users

No special precautions are needed in handling this material

14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

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

According to present data no classification and labelling is required according to Regulation (EC) No 1272/2008

15.2 Chemical Safety Assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

16. OTHER INFORMATION

Issuing Date 2020-09-10
Revision Date 2020-09-11
Revision Note Initial Release

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H400 - Very toxic to aquatic life

Additional advice

EU Country Specific Exposure Limits

Chemical Name	The United Kingdom	Ireland	France	Germany	The Netherlands
Glycerol	STEL 30 mg/m ³ TWA 10 mg/m ³		TWA 10 mg/m ³	AGW 200 mg/m ³	
Propylene glycol	STEL 450 ppm STEL 1422 mg/m ³ STEL 30 mg/m ³ TWA 150 ppm TWA 474 mg/m ³ TWA 10 mg/m ³	TWA 10 mg/m ³ TWA 150 ppm TWA 470 mg/m ³ STEL 1410 mg/m ³ STEL 30 mg/m ³ STEL 450 ppm			
Triethylene glycol				AGW 1000 mg/m ³	
Triethanolamine		TWA 5 mg/m ³ STEL 15 mg/m ³		AGW 1 mg/m ³	

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Chemical Name	Belgium	Switzerland	Austria	Hungary	Czech Republic
Glycerol	TWA 10 mg/m ³	SS-C** TWA 50 mg/m ³ STEL 100 mg/m ³			TWA 10 mg/m ³ Ceiling 15 mg/m ³
Triethylene glycol		SS-B** TWA 1000 mg/m ³ STEL 2000 mg/m ³			
Triethanolamine	TWA 5 mg/m ³	SS-C** TWA 5 mg/m ³ STEL 5 mg/m ³	S** STEL 1.6 ppm STEL 10 mg/m ³ TWA 0.8 ppm TWA 5 mg/m ³		TWA 5 mg/m ³ Ceiling 10 mg/m ³ S*

Chemical Name	Spain	Portugal	Italy	Greece	Romania
Glycerol	TWA 10 mg/m ³	TWA 10 mg/m ³		TWA 10 mg/m ³	
Triethylene glycol					STEL 163 ppm STEL 1000 mg/m ³ TWA 114 ppm TWA 700 mg/m ³
Triethanolamine	TWA 5 mg/m ³	TWA 5 mg/m ³			

Chemical Name	Poland	Denmark	Sweden	Finland	Norway
Glycerol	TWA 10 mg/m ³			TWA 20 mg/m ³	
Propylene glycol	TWA 100 mg/m ³				TWA 25 ppm TWA 79 mg/m ³ STEL 37.5 ppm STEL 118.5 mg/m ³
Triethanolamine		TWA 0.5 ppm TWA 3.1 mg/m ³	TLV 5 mg/m ³ TLV 0.8 ppm Indicative STEL 10 mg/m ³ Indicative STEL 1.6 ppm A*	TWA 5 mg/m ³	TWA 5 mg/m ³ STEL 10 mg/m ³

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 as amended.

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.