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

1.1 Product identifier

Product name: G135 PART B

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

Identified uses: Photographic developer concentrate
Uses advised against: For industrial use only

1.3 Details of the supplier of the safety data sheet

Manufacturer

Agfa-Gevaert NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4445501
Fax: +32 3 4445503
E-mail: electronic.sds@agfa.com

National Supplier

Druck Ltd.
Inspection Technologies division
Fir Tree Lane
GROBY
Leicestershire
LE6 0FH
GREAT BRITAIN

Telephone: +44(0)8456015771
E-mail: trans.geituksales@ge.com

1.4 Emergency telephone number:

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

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Health Hazards		
Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Skin corrosion	Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Environmental Hazards		
Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Spicers
AUSTRALIAN DISTRIBUTOR
For inquiries please contact your local Spicers representative.
1300 132 644

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Contains: Diethylene glycol
Acetic acid

Signal Word: Danger

Hazard Statement(s):
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/ physician.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Results of PBT and vPvB 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Diethylene glycol	50 - <100%	111-46-6		01-2119457857-21-XXXX;	No data available.	#
Acetic acid	25 - <50%	64-19-7		01-2119475328-30-XXXX;	No data available.	#
1-Phenyl-3-pyrazolidone	2.5 - <5%	92-43-3		No data available.	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Diethylene glycol	Classification: Acute Tox.: 4: H302; Supplemental label information: None known.	None.
Acetic acid	Classification: Flam. Liq.: 3: H226; Skin Corr.: 1A: H314; Eye Dam.: 1: H318; Supplemental label information: None known.	Note B
1-Phenyl-3-pyrazolidone	Classification: Acute Tox.: 4: H302; Aquatic Chronic: 2: H411; Supplemental label information: None known.	None.

CLP: Regulation No. 1272/2008.
The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Get medical attention if symptoms occur.

Inhalation: Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.

Skin Contact: Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

Personal Protection for First-aid Responders: CAUTION! First aid personnel must be aware of own risk during rescue! See Section 8 of the SDS for Personal Protective Equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: See section 11 of the SDS for additional information on health hazards.

Hazards: See section 11 of the SDS for additional information on health hazards.

4.3 Indication of immediate medical attention and special treatment needed

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Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Avoid breathing dust/fume/gas/mist/vapors/spray. Provide adequate ventilation. Ventilate closed spaces before entering them.

6.1.1 For non-emergency personnel: Use personal protective equipment.

6.1.2 For emergency responders: Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.

6.2 Environmental Precautions: Do not contaminate water sources or sewer. Prevent entry into waterways, sewer, basements or confined areas. Contact local authorities in case of spillage to drain/aquatic environment. Avoid release to the environment.

6.3 Methods and material for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Stop the flow of material, if this is without risk. Small Spillages: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean surface thoroughly to remove residual contamination. Large Spillages: Dike far ahead of larger spill for later recovery and disposal.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

Technical measures (e.g. Local and general ventilation): Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Safe handling advice: Do not taste or swallow. Wash hands thoroughly after handling. Do not get in eyes. Do not get in eyes, on skin, on clothing.

Contact avoidance measures: Contact with incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

Safe packaging materials: Suitable materials**:** Keep in original container.

7.3 Specific end use(s): For industrial use only

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
Diethylene glycol	TWA		23 ppm	101 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Acetic acid	TWA		10 ppm	25 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (08 2018)
	STEL 15 minutes		20 ppm	50 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
	TWA		10 ppm	25 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
	STEL		20 ppm	50 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (02 2017)
	STEL 15 minutes		20 ppm	50 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)
	TWA 8 hours		10 ppm	25 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar

professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Diethylene glycol	Workers	Inhalation	Local, long-term; 60 mg/m3	irritation respiratory tract
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Local, long-term; 12 mg/m3	irritation respiratory tract
	General population	Inhalation	Systemic, long-term; 12 mg/m3	irritation respiratory tract
	Workers	Inhalation	Systemic, long-term; 44 mg/m3	
	General population	Dermal	Systemic, long-term; 21 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 43 mg/kg	Repeated dose toxicity
Acetic acid	Workers	Inhalation	Local, long-term; 25 mg/m3	irritation respiratory tract
	General population	Inhalation	Local, long-term; 25 mg/m3	irritation respiratory tract
	General population	Inhalation	Local, short-term; 25 mg/m3	irritation respiratory tract
	Workers	Inhalation	Local, short-term; 25 mg/m3	irritation respiratory tract
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
1-Phenyl-3-pyrazolidone	Workers	Inhalation	Systemic, long-term; 19.9 mg/m3	Effect on fertility
	General population	Inhalation	Systemic, long-term; 2.99 mg/m3	Effect on fertility
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Oral	Systemic, long-term; 2.02 mg/kg	Effect on fertility
	Workers	Dermal	Systemic, long-term; 5.65 mg/kg	Effect on fertility
	General population	Dermal	Systemic, long-term; 2.02 mg/kg	Effect on fertility

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Diethylene glycol	soil	1.53 mg/kg	
	Aquatic (marine water)	1 mg/l	
	Aquatic (freshwater)	10 mg/l	
	freshwater sediment	20.9 mg/kg	
	Sewage treatment plant	199.5 mg/l	
	Marine sediments	2.09 mg/kg	
Acetic acid	soil	0.47 mg/kg	
	Aquatic (marine water)	0.306 mg/l	
	freshwater sediment	11.36 mg/kg	
	Aquatic (freshwater)	3.058 mg/l	
	Sewage treatment plant	85 mg/l	
	Marine sediments	1.136 mg/kg	
1-Phenyl-3-pyrazolidone	Aquatic (freshwater)	6.25 µg/l	

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	Marine sediments	0.00465 mg/kg	
	soil	0.00564 mg/kg	
	Aquatic (marine water)	0.625 µg/l	
	freshwater sediment	0.0465 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Monitoring methods: BS EN 14042:2003: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Individual protection measures, such as personal protective equipment

General information Follow training instructions when handling this material. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Safety goggles. EN 166.

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash.(EN374), Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber (EN374), Glove thickness: > 0.35 mm, Break-through time: > 240 min, Risk of splashes:, Nitrile rubber., Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable., The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Skin and Body Protection: Safety clothes : long sleeved clothing EN13688

Respiratory Protection: Under normal conditions of use, respirator protection is not required. In case of inadequate ventilation use suitable respirator (EN14387). Use respiratory equipment with combination filter, type A2/P2. Seek advice from local supervisor.

Hygiene measures: Do not eat, drink or smoke when using the product. Wash hands after handling. Do not get in eyes. Observe good industrial hygiene practices.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Sour/acidic
Odor Threshold:	No data available.
Freezing point:	< 32 °F/< 0 °C
Boiling Point:	> 212 °F/> 100 °C
Flammability:	Not flammable.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	> 199.99 °F/> 93.33 °C
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	0.7 (77 °F/25 °C)
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable Mixture
Vapor pressure:	20.79 hPa (68 °F/20 °C)
Relative density:	1.1040 (68 °F/20 °C)
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

9.2 Other information

Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
VOC Content:	EC Directive 1999/13: 0 g/l ~0 % (calculated)

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	Material is stable under normal conditions.
10.2	**Chemical Stability:**	Material is stable under normal conditions.
10.3	**Possibility of hazardous reactions:**	Can react with bases.
10.4	**Conditions to avoid:**	Avoid heat or contamination.

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10.5	**Incompatible Materials:**	None known.
10.6	**Hazardous Decomposition Products:**	By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: Moderately irritating to skin with prolonged exposure.

Eye contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 781.74 mg/kg

Components:

Diethylene glycol	ATE: 500 mg/kg
Acetic acid	LD 50 (Rat): 3,310 mg/kg Experimental result, Weight of Evidence study
1-Phenyl-3-pyrazolidone	ATE: 500 mg/kg

Dermal

Product: ATEmix 3,452.77 mg/kg

Components:

Diethylene glycol	LD 50 (Rabbit): 13,300 mg/kg
Acetic acid	LD 50 (Rabbit): 1,060 mg/kg
1-Phenyl-3-pyrazolidone	No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

Diethylene glycol	No data available.
Acetic acid	LOAEL (Rat, 4 h): 450 ppm Vapor, Experimental result, Weight of Evidence study
1-Phenyl-3-pyrazolidone	No data available.

Repeated dose toxicity

Product: No data available.

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Components:

Diethylene glycol	No data available.
Acetic acid	NOAEL (Rat(Male), Oral, 8 Weeks): 290 mg/kg
1-Phenyl-3-pyrazolidone	No data available.

Skin Corrosion/Irritation:

Product: Causes severe skin burns and eye damage.

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Components:

Diethylene glycol	in vivo Not irritating
Acetic acid	in vivo Category 1
1-Phenyl-3-pyrazolidone	No data available.

Respiratory or Skin Sensitization:

Product: Based on available data, the classification criteria are not met.

Components:

Diethylene glycol	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

In vitro

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

In vivo

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

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Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

Components:

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

SECTION 12: Ecological information

General information: Contains a substance which causes risk of hazardous effects to the environment.

12.1 Toxicity

Acute toxicity

Remarks:

Based on available data, the classification criteria are not met.

Fish

Product: No data available.

Components

Diethylene glycol	LC 50 (Pimephales promelas, 96 h): 75,200 mg/l (flow-through) Experimental result, Key study
Acetic acid	NOAEL (Oncorhynchus mykiss, 96 h): 1,000 mg/l (semi-static) Experimental result, Key study

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	LC 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l (semi-static) Experimental result, Key study
1-Phenyl-3-pyrazolidone	No data available.

Aquatic Invertebrates

Product:	No data available.

Components

Diethylene glycol	EC 50 (Daphnia magna, 24 h): > 10,000 mg/l (Static) Experimental result, Key study
Acetic acid	EC 50 (Daphnia magna, 48 h): > 300.82 mg/l (Static) Experimental result, Key study
1-Phenyl-3-pyrazolidone	No data available.

Toxicity to Aquatic Plants

Product:	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Toxicity to microorganisms

Product:	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available

Chronic Toxicity

Remarks:

Harmful to aquatic life with long lasting effects.

Fish

Product:	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Aquatic Invertebrates

Product:	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

Toxicity to Aquatic Plants

Product:	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.

Components

Diethylene glycol	(10 d): 90 - 100 % Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
Acetic acid	(20 d): 96 % Detected in water. Experimental result, Key study
1-Phenyl-3-pyrazolidone	No data available.

BOD/COD Ratio

Product	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

12.3 Bioaccumulative potential

Product:	No data available.

Components

Diethylene glycol	Leuciscus idus, Bioconcentration Factor (BCF): 100 Aquatic sediment Experimental result, Key study
Acetic acid	Various, Bioconcentration Factor (BCF): 3.16 Aquatic sediment QSAR, Key study
1-Phenyl-3-pyrazolidone	No data available.

12.4 Mobility in soil

Product:	No data available.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

12.5 Results of PBT and vPvB assessment

Product:	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.

Components

Diethylene glycol	No data available.
Acetic acid	No data available.
1-Phenyl-3-pyrazolidone	No data available.

12.6 Other adverse effects: Harmful to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated Packaging: Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1 UN number or ID number:	UN 2790
14.2 UN Proper Shipping Name:	ACETIC ACID SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	80
Tunnel restriction code:	(E)
14.4 Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

RID

14.1 UN number or ID number:	UN 2790
14.2 UN Proper Shipping Name	ACETIC ACID SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	III
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

ADN

14.1 UN number or ID number:	UN 2790
14.2 UN Proper Shipping Name	ACETIC ACID SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	III
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

IMDG

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14.1 UN number or ID number:	UN 2790
14.2 UN Proper Shipping Name:	ACETIC ACID SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
14.4 Packing Group:	III
<03EHS_L_TEXT(ZAGFA-ARI-S-100017321)[D:Limited quantity]>	5.00L
Excepted quantity	E1
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	–

IATA

14.1 UN number or ID number:	UN 2790
14.2 Proper Shipping Name:	Acetic acid solution
14.3 Transport Hazard Class(es):	
Class:	8
Label(s):	8
14.4 Packing Group:	III
Limited quantity	1.00L
Excepted quantity	E1
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

Other information

Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

14.7 Maritime transport in bulk according to IMO instruments: not applicable

SECTION 15: Regulatory information

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

EU Regulations

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I,

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Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: None present or none present in regulated quantities.

15.2 Chemical safety assessment: Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

Notes:

Acetic acid	Note B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid...%'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Key literature references and sources for data: Safety Data Sheet from the supplier.
ECHA

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Acute toxicity, Category 4 Oral	Calculation method
Skin corrosion, Category 1	Calculation method
Serious eye damage, Category 1	Calculation method
Chronic hazards to the aquatic environment, Category 3	Calculation method

Wording of the statements in section 2 and 3

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training information: Follow training instructions when handling this material.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Safe Use of Mixtures Information (SUMI)

Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation.This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product Safety Data Sheet (SDS), the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions foremployees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.The REACH registration numbers, where applicable, complete an extended product SDS.

Operational conditions

Max Duration	Up to 8 h/d
Frequency of exposure	< 240 d/y
Physical state	liquid
Process conditions	Covers use at ambient temperatures. Adequate ventilation should be provided so that exposure limits are not exceeded. As a rule, at least 10 air changes per hour are recommended at the workplace. Avoid contact with skin and eyes. Regular cleaning of equipment, work area and clothing. Supervision in place to check that Risk Management Measures (RMM's) in place are being correctly used and Occupational Conditions (OC's) followed.

Risk management measures

Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation	Wear safety glasses with side shields (or goggles). Chemical goggles are recommended. Wear chemical-resistant gloves and protective clothing. See Section 8 of the SDS for Personal Protective Equipment. No personal respiratory protective equipment normally required. Eye wash station and emergency showers are recommended. Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Training of worker in relation to proper use and maintenance of the PPE must be ensured.
	

Good practice advice

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Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Use personal protective equipment as required. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Do not eat, drink or smoke when using the product. Wash contaminated clothing before reuse. Store at room temperature in the original container.	

Environmental Precautions

Do not allow to enter drains, sewers or watercourses.
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Dispose of waste and residues in accordance with local authority requirements.

Use descriptors

IS - Use at industrial sites.
PW - Widespread use by professional workers.
SU7 - Printing and reproduction media.
PC30 - Photochemicals
PROC3 - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.
PROC5 - Mixing or blending in batch processes.
PROC8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.
PROC8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities.
PROC13 - Treatment of articles by dipping and pouring.
PROC28 - Manual maintenance (cleaning and repair) of machinery
ERC6b - Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC8b - Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

Additional information on product composition

In section 2 of the SDS as well as on the label,the classification of the mixture is provided.
All ingredients contributing to the classification are stated in Section 3 of the SDS.
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.
Note that this will be the concentrate used to create the working strength (WS) solution.