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

1.1 Product identifier

Product name: G335, PART A

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

Identified uses: photochemicals
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

Toxic to reproduction	Category 1B	H360FD: May damage fertility. May damage the unborn child.

2.2 Label Elements

Contains: Boric acid

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Signal Word: Danger

Hazard Statement(s): H360FD: May damage fertility. May damage the unborn child.

Precautionary Statements

Prevention:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

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
Acetic acid	3 - <5%	64-19-7		01-2119475328-30-XXXX;	No data available.	#
Boric acid	1 - <5%	10043-35-3		01-2119486683-25-XXXX;	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Acetic acid	Classification: Flam. Liq.: 3: H226; Skin Corr.: 1A: H314; Eye Dam.: 1: H318; Supplemental label information: None known.	Note B
Boric acid	Classification: Repr.: 1B: H360FD; Supplemental label information: None known.	None.

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Get medical attention if symptoms occur.
Inhalation:	Move to fresh air.
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Eye contact:	Rinse immediately with plenty of water.
Ingestion:	Rinse mouth thoroughly.
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

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

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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.

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: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

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

7.1 Precautions for safe handling

Technical measures (e.g. Local and general ventilation): Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

Safe handling advice: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

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

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8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
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
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)
Boric acid	General population	Oral	Systemic, long-term; 0.98 mg/kg	developmental toxicity / teratogenicity
	Worker: Industry	Inhalation	Long-term - systemic effects; 8.3 mg/m3	
	Workers	Dermal	Systemic, long-term; 392 mg/kg	developmental toxicity / teratogenicity
	General population	Oral	Systemic, short-term; 0.98 mg/kg	developmental toxicity / teratogenicity
	General population	Dermal	Systemic, long-term; 196 mg/kg	developmental toxicity / teratogenicity
	Workers	Inhalation	Systemic, long-term; 8.3 mg/m3	developmental toxicity / teratogenicity
	General population	Inhalation	Systemic, long-term; 4.15 mg/m3	developmental toxicity / teratogenicity
	Workers	Eyes	Local effect;	No hazard identified

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	General population	Eyes	Local effect;	No hazard identified

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
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	
Boric acid	soil	5.7 mg/kg	
	Fresh water	1.35 mg/l	
	Sewage treatment plant	10 mg/l	
	Marine water	1.35 mg/l	
	Aquatic (freshwater)	2.9 mg/l	
	Sediment-fresh water	1.8 mg/kg	
	Aquatic (marine water)	2.9 mg/l	
	Sewage treatment plant	1.75 mg/l	
	Intermittent release	9.1 mg/l	

8.2 Exposure controls

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

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

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash., Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber., 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

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Respiratory Protection:	In case of inadequate ventilation, use respiratory protection. Seek advice from local supervisor.
Hygiene measures:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.
Environmental Controls:	Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Mild pungent
Odor Threshold:	No data available.
Freezing point:	< 32 °F/< 0 °C (QSAR)
Boiling Point:	> 212 °F/> 100 °C (QSAR)
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:	not determined
Decomposition Temperature:	No data available.
pH:	5.4 (QSAR) (77 °F/25 °C)
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	4.79 mm2/s (68 °F/20 °C)
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:	23 hPa (68 °F/20 °C) (QSAR)
Relative density:	1.3430 (68 °F/20 °C) (QSAR)
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)

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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:**	Not known.
10.4	**Conditions to avoid:**	Avoid heat or contamination.
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: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

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

Components:

Acetic acid	LD 50 (Rat): 3,310 mg/kg Experimental result, Weight of Evidence study
Boric acid	LD 50 (Rat): 4,080 mg/kg Experimental result, Key study LD 50 (Rat): 3,450 mg/kg Experimental result, Key study

Dermal

Product: ATEmix 35,333.33 mg/kg

Components:

Acetic acid	LD 50 (Rabbit): 1,060 mg/kg
Boric acid	LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study

Inhalation

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

Components:

Acetic acid	LOAEL (Rat, 4 h): 450 ppm Vapor, Experimental result, Weight of

	Evidence study
Boric acid	LC 50 (Rat, 5 h): > 2.03 mg/l Aerosol, Experimental result, Key study

Repeated dose toxicity

Product:	No data available.
Components:	
Acetic acid	NOAEL (Rat(Male), Oral, 8 Weeks): 290 mg/kg
Boric acid	LOAEL (Rat(Female, Male), Oral, 2 yr): 334 mg/kg

Skin Corrosion/Irritation:

Product:	Based on available data, the classification criteria are not met.
Components:	
Acetic acid	No data available.
Boric acid	in vivo Not irritant Experimental result, Supporting study

Serious Eye Damage/Eye Irritation:

Product:	Based on available data, the classification criteria are not met.
Components:	
Acetic acid	in vivo Category 1
Boric acid	No data available.

Respiratory or Skin Sensitization:

Product:	Based on available data, the classification criteria are not met.
Components:	
Acetic acid	No data available.
Boric acid	No data available.

Germ Cell Mutagenicity

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

In vitro

Components:	
Acetic acid	No data available.
Boric acid	No data available.

In vivo

Components:	
Acetic acid	No data available.
Boric acid	No data available.

Carcinogenicity

Product:	Based on available data, the classification criteria are not met.
Components:	
Acetic acid	No data available.
Boric acid	No data available.

Reproductive toxicity

Product:	May damage fertility. May damage the unborn child.

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Components:

Acetic acid	No data available.
Boric acid	No data available.

Specific Target Organ Toxicity - Single Exposure

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

Components:

Acetic acid	No data available.
Boric acid	No data available.

Specific Target Organ Toxicity - Repeated Exposure

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

Components:

Acetic acid	No data available.
Boric acid	No data available.

Aspiration Hazard

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

Components:

Acetic acid	No data available.
Boric acid	No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Remarks:

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

Fish

Product: No data available.

Components

Acetic acid	NOAEL (Oncorhynchus mykiss, 96 h): 1,000 mg/l (semi-static) Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l (semi-static) Experimental result, Key study
Boric acid	LC 50 (Pimephales promelas, 96 h): 79.7 mg/l (Static) Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study LC 50 (Limanda limanda, 96 h): 74 mg/l (flow-through) Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

Aquatic Invertebrates

Product: No data available.

Components

Acetic acid	EC 50 (Daphnia magna, 48 h): > 300.82 mg/l (Static) Experimental result, Key study
Boric acid	LC 50 (Megalonaias nervosa, 96 h): > 544 mg/l (Static) Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

Toxicity to Aquatic Plants

Product: No data available.

Components

Acetic acid	No data available.
Boric acid	No data available.

Toxicity to microorganisms

Product: No data available.

Components

Acetic acid	No data available.
Boric acid	EC50 (Pseudomonas putida (bacteria), 3 h): > 1,000 mg/l Based on available data, the classification criteria are not met.

Chronic Toxicity

Remarks:

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

Fish

Product: No data available.

Components

Acetic acid	No data available.
Boric acid	NOAEL (Pimephales promelas, 32 d): >= 44.5 mg/l (semi-static) Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study NOAEL (Pimephales promelas, 32 d): 11.2 mg/l (semi-static) Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study LOAEL (Pimephales promelas, 32 d): 23 mg/l (semi-static) Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

Aquatic Invertebrates

Product: No data available.

Components

Acetic acid	No data available.
Boric acid	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Acetic acid	No data available.
Boric acid	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.

Components

Acetic acid	(20 d): 96 % Detected in water. Experimental result, Key study
Boric acid	No data available.

BOD/COD Ratio

Product	No data available.

Components

Acetic acid	No data available.
Boric acid	No data available.

12.3 Bioaccumulative potential

Product:	No data available.

Components

Acetic acid	Various, Bioconcentration Factor (BCF): 3.16 Aquatic sediment QSAR, Key study
Boric acid	Various, Bioconcentration Factor (BCF): 12 - 155 Terrestrial Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

12.4 Mobility in soil

Product:	No data available.

Components

Acetic acid	No data available.
Boric acid	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

Acetic acid	No data available.
Boric acid	No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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Disposal methods:	Wash before disposal. Dispose to controlled facilities. 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. 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:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

RID

14.1 UN number or ID number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

ADN

14.1 UN number or ID number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IMDG

14.1 UN number or ID number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IATA

14.1 UN number or ID number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.

14.6 Special precautions for user: Not regulated.

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, 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

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		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
Toxic to reproduction, Category 1B	Calculation method

Wording of the statements in section 2 and 3

H226	Flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.

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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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

SAFETY DATA SHEET

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
PROC4 - Chemical production where opportunity for exposure arises.
PROC8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.
PROC13 - Treatment of articles by dipping and pouring.
PROC28 - Manual maintenance (cleaning and repair) of machinery
ERC4 - Use of non-reactive processing aid at industrialsite (no inclusion into or onto article).
ERC8a - Widespread use of non-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.