

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Glyclean™ D70E

Version	Revision Date:	SDS Number:	Date of last issue: 02.09.2021
3.0	09.11.2021	6606979-00007	Date of first issue: 07.10.2020

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

#### 1.1 Product identifier

Trade name	:	Glyclean™ D70E
SDS-Identcode	:	130000147737
Unique Formula Identifier (UFI)	:	G21Y-NX0G-EM6V-PJP5

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

Use of the Sub-stance/Mixture	:	Biocidal product
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#### 1.3 Details of the supplier of the safety data sheet

Company	:	Chemours Netherlands B.V. Baanhoekweg 22 3313 LA Dordrecht Netherlands
Telephone	:	+31-(0)-78-630-1011
Telefax	:	+31-78-6163737
E-mail address of person responsible for the SDS	:	sds-support@chemours.com

#### 1.4 Emergency telephone number

+(353)-19014670 (CHEMTREC - Recommended) ; +353-(01) 809 2166 (Poison Information Center of Ireland)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

Supplemental Hazard Statements

:

EUH071 Corrosive to the respiratory tract.

Precautionary statements

:

### Prevention:

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

### Hazardous components which must be listed on the label:

Glycolic acid

Formic acid

### Additional Labelling

EUH208 Contains Formaldehyde. May produce an allergic reaction.

## 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Glycolic acid	79-14-1 201-180-5 01-2119485579-17	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 EUH071  Acute toxicity estimate  Acute inhalation toxicity (dust/mist): 3.6 mg/l	$\geq 50 - < 70$
Formic acid	64-18-6 200-579-1 607-001-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Corr. 1A; H314 Eye Dam. 1; H318 EUH071  specific concentration limit Skin Corr. 1A; H314 $\geq 90\%$ Skin Corr. 1B; H314 $10 - < 90\%$ Skin Irrit. 2; H315 $2 - < 10\%$ Eye Irrit. 2; H319 $2 - < 10\%$ EUH071 $\geq 10\%$  Acute toxicity estimate  Acute oral toxicity: 730 mg/kg Acute inhalation toxicity (vapour): 7.85 mg/l	$\geq 0.1 - < 1$
Methoxyacetic acid	625-45-6	Acute Tox. 4; H302	$\geq 0.1 - < 0.3$

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	210-894-6 607-312-00-1	Skin Corr. 1B; H314 Eye Dam. 1; H318 Repr. 1B; H360FD STOT SE 3; H335  specific concentration limit STOT SE 3; H335 ≥ 5 %  Acute toxicity esti- mate  Acute oral toxicity: 1,000 mg/kg	
Formaldehyde	50-00-0 200-001-8 605-001-00-5	Flam. Gas 1B; H221 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335  specific concentration limit Skin Corr. 1B; H314 ≥ 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 ≥ 5 % Skin Sens. 1A; H317 ≥ 0.2 %  Acute toxicity esti- mate  Acute oral toxicity: 100 mg/kg Acute inhalation tox- icity (gas): 100 ppm  Acute dermal toxicity: 270 mg/kg	< 0.1

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |  |
|----------------------------|--|
| General advice             | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.   |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).  |
| If inhaled                 | : If inhaled, remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>Get medical attention immediately.  |
| In case of skin contact    | : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.<br>Get medical attention immediately.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |
| In case of eye contact     | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention immediately.   |
| If swallowed               | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control centre immediately.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.      |

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

- |          |  |
|----------|--|
| Symptoms | : Inhalation may provoke the following symptoms:<br>Cough<br>Shortness of breath<br>Pain<br>Irritation<br><br>Skin contact may provoke the following symptoms:<br>Irritation<br>Rash<br>Necrosis<br>Discomfort<br><br>Eye contact may provoke the following symptoms<br>Corrosion<br>Ulceration<br>Severe irritation |
|----------|--|

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Ingestion may provoke the following symptoms:

Gastrointestinal discomfort

Nausea

Vomiting

Diarrhoea

Risks : Causes serious eye damage.  
Harmful if inhaled.  
Corrosive to the respiratory tract.  
Causes severe burns.

Causes digestive tract burns.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

#### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing mist or vapours.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment

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Keep container tightly closed.  
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Reacts with many metals to liberate hydrogen gas which can form explosive mixtures with air. Hydrogen, a highly flammable gas, can accumulate to explosive concentrations inside drums, or any types of steel containers or tanks upon storage.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Organic peroxides  
Explosives

Recommended storage temperature : > 10 - < 50 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formic acid	64-18-6	TWA	5 ppm 9 mg/m3	2006/15/EC
Further information: Indicative				
		OELV - 8 hrs (TWA)	5 ppm 9 mg/m3	IE OEL
Formaldehyde	50-00-0	TWA	0.3 ppm 0.37 mg/m3	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
		STEL	0.6 ppm 0.74 mg/m3	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
		OELV - 8 hrs (TWA)	0.3 ppm 0.37 mg/m3	IE OEL
Further information: Chemical agents which following exposure may cause				

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	sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis, Carc 1B - Substances presumed to have carcinogenic potential for humans			
		OELV - 15 min (STEL)	0.6 ppm 0.738 mg/m <sup>3</sup>	IE OEL
	Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis, Carc 1B - Substances presumed to have carcinogenic potential for humans			

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	2006/15/EC
	Further information: Indicative			
		OELV - 8 hrs (TWA)	5,000 ppm 9,000 mg/m <sup>3</sup>	IE OEL

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Glycolic acid	Workers	Inhalation	Acute systemic effects	9.2 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	9.2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	57.69 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	10.56 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	1.53 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	2.3 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	28.85 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Acute local effects	2.3 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	2.6 mg/m <sup>3</sup>
Formic acid	Workers	Inhalation	Acute local effects	19 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	9.5 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	9.5 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	3 mg/m <sup>3</sup>
Formaldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0.375 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day

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	Workers	Inhalation	Acute local effects	0.75 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3.2 mg/m3
	Consumers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4.1 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0.037 mg/cm2
	Consumers	Inhalation	Long-term local effects	0.1 mg/m3
	Consumers	Skin contact	Long-term local effects	0.012 mg/cm2

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Glycolic acid	Fresh water	0.0312 mg/l
	Freshwater - intermittent	0.312 mg/l
	Marine water	0.0031 mg/l
	Marine sediment	0.0115 mg/kg dry weight (d.w.)
	Fresh water sediment	0.115 mg/kg dry weight (d.w.)
	Soil	0.007 mg/kg dry weight (d.w.)
	Sewage treatment plant	7 mg/l
Formic acid	Oral (Secondary Poisoning)	16.66 mg/kg food
	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	7.2 mg/l
	Fresh water sediment	13.4 mg/kg
	Marine sediment	1.34 mg/kg
Formaldehyde	Soil	1.5 mg/kg
	Fresh water	0.44 mg/l
	Marine water	0.44 mg/l
	Intermittent use/release	4.44 mg/l
	Sewage treatment plant	0.19 mg/l
	Fresh water sediment	2.3 mg/kg
	Marine sediment	2.3 mg/kg
	Soil	0.2 mg/kg

## 8.2 Exposure controls

### Engineering measures

Processing may form hazardous compounds (see section 10).

Minimize workplace exposure concentrations.

If sufficient ventilation is unavailable, use with local exhaust ventilation.

### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Chemical resistant goggles must be worn.  
If splashes are likely to occur, wear:  
Face-shield

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	Equipment should conform to I.S. EN 166
Hand protection	
Material	: Chloroprene
Break through time	: > 480 min
Glove thickness	: 0.6 mm
Remarks	: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
	Skin and body protection
	: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
	Respiratory protection
	: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387
	Filter type
	: Inorganic gas/vapour type (B)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: light yellow
Odour	: of burnt sugar
Odour Threshold	: No data available
Melting point/freezing point	: 10 °C
Initial boiling point and boiling range	: 112 °C (1,013 hPa)
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower	: No data available

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flammability limit

Flash point : > 100 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 0.1 (25 °C)

Viscosity

Viscosity, kinematic : 6.149 mm<sup>2</sup>/s (23 °C)

Solubility(ies)

Water solubility : > 300 g/l (22 °C)  
(for a component of this mixture)

Partition coefficient: n-octanol/water : log Pow: -1.07 (20 °C)  
(for a component of this mixture)

Vapour pressure : 0.0041 hPa (25 °C)  
(for a component of this mixture)

Relative density : 1.27 (20 °C)

Relative vapour density : No data available

Particle characteristics

Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

|| Molecular weight : 76.05 g/mol

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed at elevated temperatures.

### 10.4 Conditions to avoid

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Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents  
Bases

### 10.6 Hazardous decomposition products

Thermal decomposition : Carbon dioxide

## SECTION 11: Toxicological information

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

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Harmful if inhaled.

#### Product:

Acute inhalation toxicity : Acute toxicity estimate: 4.85 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### **Glycolic acid:**

Acute oral toxicity : LD50 (Rat): 2,040 mg/kg  
Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat): 3.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: Corrosive to the respiratory tract.

Acute toxicity estimate: 3.6 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

##### **Formic acid:**

Acute oral toxicity : LD50 (Rat): 730 mg/kg  
Method: OECD Test Guideline 401

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Acute inhalation toxicity	Acute toxicity estimate: 730 mg/kg
	Method: Calculation method
:	LC50 (Rat): 7.85 mg/l
	Exposure time: 4 h
	Test atmosphere: vapour
	Method: OECD Test Guideline 403
	Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity	Acute toxicity estimate: 7.85 mg/l
	Test atmosphere: vapour
:	Method: Calculation method
	LD50 (Rat): > 2,000 mg/kg
	Remarks: Based on data from similar materials

### Methoxyacetic acid:

Acute oral toxicity	LD50 (Rat): 1,000 mg/kg
:	Acute toxicity estimate: 1,000 mg/kg
	Method: Calculation method

### Formaldehyde:

Acute oral toxicity	Acute toxicity estimate: 100 mg/kg
:	Method: Expert judgement
Acute inhalation toxicity	Acute toxicity estimate: 100 ppm
	Exposure time: 4 h
	Test atmosphere: gas
	Method: Expert judgement
Acute dermal toxicity	LD50 (Rabbit): 270 mg/kg
	Acute toxicity estimate: 270 mg/kg
	Method: Calculation method

### Skin corrosion/irritation

Causes severe burns.

### Components:

#### Glycolic acid:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Corrosive after 3 minutes to 1 hour of exposure

#### Formic acid:

Result	: Corrosive after 3 minutes or less of exposure
Remarks	: Based on harmonised classification in EU regulation 1272/2008, Annex VI

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### Methoxyacetic acid:

Species	: Rabbit
Result	: Corrosive after 3 minutes to 1 hour of exposure

### Formaldehyde:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

Causes serious eye damage.

### Components:

#### Glycolic acid:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye

#### Formic acid:

Result	: Irreversible effects on the eye
Remarks	: Based on skin corrosivity.

#### Methoxyacetic acid:

Result	: Irreversible effects on the eye
Remarks	: Based on skin corrosivity.

#### Formaldehyde:

Species	: Rabbit
Result	: Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Glycolic acid:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

#### Formic acid:

Test Type	: Buehler Test
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Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

### Formaldehyde:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: positive

Assessment	: Probability or evidence of high skin sensitisation rate in humans
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### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Glycolic acid:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative  Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative  Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity- Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

#### Formic acid:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Sex-linked recessive lethal test in Drosophila melanogaster (in vivo) Application Route: Ingestion Method: OECD Test Guideline 477

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Result: negative

### Methoxyacetic acid:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

### Formaldehyde:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: positive

Test Type: Chromosome aberration test in vitro  
Result: positive

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: Inhalation  
Result: positive

Germ cell mutagenicity- Assessment : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.

### Carcinogenicity

Not classified based on available information.

### Components:

#### Glycolic acid:

Species : Mouse  
Application Route : Skin contact  
Exposure time : 40 weeks  
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### Formic acid:

Species : Rat  
Application Route : Ingestion  
Exposure time : 104 weeks  
Result : negative  
Remarks : Based on data from similar materials

#### Formaldehyde:

Species : Rat  
Application Route : inhalation (gas)  
Exposure time : 28 Months  
Result : positive

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Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Glycolic acid:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: Regulation (EC) No. 440/2008, Annex, B.34  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### Formic acid:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

#### Methoxyacetic acid:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: positive

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: positive

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertil-

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Assessment : ity, based on animal experiments., Clear evidence of adverse effects on development, based on animal experiments.

### Formaldehyde:

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (gas)  
Result: negative

### STOT - single exposure

Corrosive to the respiratory tract.

### Components:

#### Methoxyacetic acid:

Assessment : May cause respiratory irritation.  
Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI

### Formaldehyde:

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### Components:

#### Formaldehyde:

Exposure routes : inhalation (gas)  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

### Components:

#### Glycolic acid:

Species : Rat, male and female  
NOAEL : 150 mg/kg  
LOAEL : 300 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Method : OECD Test Guideline 408

#### Formic acid:

Species : Rat  
NOAEL : 400 mg/kg  
Application Route : Ingestion  
Exposure time : 52 Weeks  
Remarks : Based on data from similar materials

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### Formaldehyde:

Species	: Rat
NOAEL	: 6 ppm
LOAEL	: 10 ppm
Application Route	: inhalation (gas)
Exposure time	: 28 Days

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Experience with human exposure

#### Product:

Inhalation	: Target Organs: Bronchia Symptoms: Cough, Shortness of breath, Pain, Local irritation  Symptoms: At atmospheric temperature, this product has only a minimal risk of inhalation due to its low vapour pressure., Inhalation of aerosol or fine spray mist may cause serious respiratory problems., Corrosive to the respiratory tract.
Skin contact	: Target Organs: Skin Symptoms: Discomfort, Irritation, Necrosis, Rash
Eye contact	: Target Organs: Eyes Symptoms: Severe irritation, Corrosion, Ulceration
Ingestion	: Target Organs: Kidney Symptoms: Diarrhoea, Vomiting, Gastrointestinal disturbance, Abdominal pain

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### Glycolic acid:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 114.8 mg/l Exposure time: 96 h
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Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 99.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 31.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  NOEC (Pseudokirchneriella subcapitata (green algae)): 14.4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

### Formic acid:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 130 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 365 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,240 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials  EC10 (Pseudokirchneriella subcapitata (green algae)): 295 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	: NOEC : 72 mg/l Exposure time: 13 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

### Methoxyacetic acid:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 500 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to algae/aquatic plants	: ErC50 (Desmodesmus subspicatus (green algae)): 66.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

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Toxicity to microorganisms : EC50 : > 1,000 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209

### Formaldehyde:

Toxicity to fish : LC50 : 6.7 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 5.8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 4.89 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : 34.1 mg/l  
Exposure time: 120 h

Toxicity to fish (Chronic toxicity) : NOEC: >= 48 mg/l  
Exposure time: 28 d  
Species: Oryzias latipes (Orange-red killifish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 6.4 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

## 12.2 Persistence and degradability

### Components:

#### Glycolic acid:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

#### Formic acid:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

#### Methoxyacetic acid:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

### Formaldehyde:

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Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 14 d  
Method: OECD Test Guideline 301C  
Remarks: Based on data from similar materials

### 12.3 Bioaccumulative potential

#### Components:

##### **Glycolic acid:**

Partition coefficient: n-octanol/water : log Pow: -1.07

##### **Formic acid:**

Partition coefficient: n-octanol/water : log Pow: -2.1

##### **Methoxyacetic acid:**

Partition coefficient: n-octanol/water : log Pow: -0.68  
Remarks: Calculation

##### **Formaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 0.35

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- |                        |   |
|------------------------|---|
| Product                | : Dispose of in accordance with local regulations.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product.   |

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- |      |           |
|------|-----------|
| ADN  | : UN 3265 |
| ADR  | : UN 3265 |
| RID  | : UN 3265 |
| IMDG | : UN 3265 |
| IATA | : UN 3265 |

#### 14.2 UN proper shipping name

- |      |  |
|------|--|
| ADN  | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(Glycolic acid) |
| ADR  | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(Glycolic acid) |
| RID  | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(Glycolic acid) |
| IMDG | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(Glycolic acid) |
| IATA | : Corrosive liquid, acidic, organic, n.o.s.<br>(Glycolic acid) |

#### 14.3 Transport hazard class(es)

- |      |     |
|------|-----|
| ADN  | : 8 |
| ADR  | : 8 |
| RID  | : 8 |
| IMDG | : 8 |
| IATA | : 8 |

#### 14.4 Packing group

- |     |  |
|-----|--|
| ADN |  |
|-----|--|

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Packing group : II  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8

### ADR

Packing group : II  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

### RID

Packing group : II  
Classification Code : C3  
Hazard Identification Number : 80  
Labels : 8

### IMDG

Packing group : II  
Labels : 8  
EmS Code : F-A, S-B

### IATA (Cargo)

Packing instruction (cargo aircraft) : 855  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

### IATA (Passenger)

Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3 Formaldehyde (Number on list 72, 28)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Methoxyacetic acid
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable	

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Other information	: Glyclean™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information. For further information contact the local Chemours office or nominated distributors.  Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
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### Full text of H-Statements

H221	: Flammable gas.
H226	: Flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H341	: Suspected of causing genetic defects.
H350	: May cause cancer.
H360FD	: May damage fertility. May damage the unborn child.
EUH071	: Corrosive to the respiratory tract.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Flam. Gas	: Flammable gases
Flam. Liq.	: Flammable liquids
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
2006/15/EC	: Europe. Indicative occupational exposure limit values
IE OEL	: Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
2004/37/EC / STEL	: Short term exposure limit
2004/37/EC / TWA	: Long term exposure limit
2006/15/EC / TWA	: Limit Value - eight hours
IE OEL / OELV - 8 hrs (TWA)	: Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL)	: Occupational exposure limit value (15-minute reference period)

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

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Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Acute Tox. 4	H332
Skin Corr. 1	H314
Eye Dam. 1	H318

### Classification procedure:

Calculation method
Based on product data or assessment
Based on product data or assessment

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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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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## Annex: Exposure Scenarios

### Table of Contents

Number	Title
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