

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



Glypure™ 70

Version	Revision Date:	SDS Number:	Date of last issue: 01.08.2023
6.0	11.08.2023	7757602-00011	Date of first issue: 29.01.2021

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

1.1 Product identifier

Trade name	:	Glypure™ 70
SDS-Identcode	:	130000000519
Unique Formula Identifier (UFI)	:	A6WG-K089-J6AS-YPD2

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

Use of the Substance/Mixture	:	Distribution, Storage, Transported isolated intermediate used under strictly controlled conditions., Processing aid, Personal care, Cosmetics, For further information see Annex - Exposure scenario., This product may be used as a biocidal active substance in accordance with Regulation (EU) 528/2012, if the appropriate local authorisations have been obtained.
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1.3 Details of the supplier of the safety data sheet

Company	:	PureTech Scientific LLC (Appointed Only Representative: Blue Frog Scientific EURL) 901 W. DuPont Ave Belle, WV 25015 United States of America (USA)
Telephone	:	1-877-215-5999
Telefax	:	1-304-357-1364
E-mail address of person responsible for the SDS	:	sds-support@puretechscientific.com

1.4 Emergency telephone number

+1 760 476 3962 access code 336264

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Supplemental Hazard Statements : EUH071 Corrosive to the respiratory tract.

Precautionary statements : **Prevention:**
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 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Storage:

P405 Store locked up.

Hazardous components which must be listed on the label:

Glycolic acid

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	>= 70 - < 90

For explanation of abbreviations see section 16.

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.
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.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
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.
Get medical attention immediately.
Wash clothing before reuse.
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.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.

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If swallowed : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control centre immediately.
Rinse mouth thoroughly with water.
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:
Cough
Shortness of breath
Pain
Irritation

Skin contact may provoke the following symptoms:
Irritation
Rash
Necrosis
Discomfort

Eye contact may provoke the following symptoms
Corrosion
Ulceration
Severe irritation

Ingestion may provoke the following symptoms:
Gastrointestinal discomfort
Nausea
Vomiting
Diarrhoea

Risks : Causes digestive tract burns.

Causes serious eye damage.
Corrosive to the respiratory tract.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

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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.

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.

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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 breathe decomposition products.

Do not get on skin or clothing.
Do not breathe vapours or spray mist.
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
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. 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
Self-reactive substances and mixtures
Organic peroxides
Explosives |
| Recommended storage temperature | : | > 10 °C |

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7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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 ³	2006/15/EC
Further information: Indicative				
		OELV - 8 hrs (TWA)	5,000 ppm 9,000 mg/m ³	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 ³
	Workers	Inhalation	Acute local effects	9.2 mg/m ³
	Workers	Skin contact	Long-term systemic effects	57.69 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	10.56 mg/m ³
	Workers	Inhalation	Long-term local effects	1.53 mg/m ³
	Consumers	Inhalation	Acute systemic effects	2.3 mg/m ³
	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 ³
	Consumers	Inhalation	Long-term systemic effects	2.6 mg/m ³

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.)

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	Sewage treatment plant	7 mg/l
	Oral (Secondary Poisoning)	16.66 mg/kg food

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/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
Equipment should conform to I.S. EN 166

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! 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 : colourless

Odour : slight

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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 flammability limit	:	No data available
Flash point	:	> 100 °C Method: ASTM D 56
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	0.1 (25 °C)
Viscosity Viscosity, kinematic	:	6.149 mm ² /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	:	1.26 (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

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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

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

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 5 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

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Corrosive to the respiratory tract.

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

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

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

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

Germ cell mutagenicity

Not classified based on available information.

Components:

Glycolic acid:

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

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

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

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

STOT - single exposure

Corrosive to the respiratory tract.

STOT - repeated exposure

Not classified based on available information.

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

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	: 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, narcosis, Rash
Eye contact	: Target Organs: Eyes Symptoms: Severe irritation, Corrosion, Ulceration
Ingestion	: Symptoms: Diarrhoea, Vomiting, Gastrointestinal disturbance,

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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

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 99.6 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 31.2
plants 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

12.2 Persistence and degradability

Components:

Glycolic acid:

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

12.3 Bioaccumulative potential

Components:

Glycolic acid:

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

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

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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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. 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. (Glycolic acid)
ADR	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
RID	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
IMDG	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

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(Glycolic acid)

IATA : Corrosive liquid, acidic, organic, n.o.s.
(Glycolic acid)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 8	
ADR	: 8	
RID	: 8	
IMDG	: 8	
IATA	: 8	

14.4 Packing group

ADN
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

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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.

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, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

Formaldehyde (Number on list 72, 28)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

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

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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

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USA, 967 Route de la Plaine, La Plaine, 26400 Chabrilan,
France, or @bluefrogscientific.com.

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H332 : Harmful if inhaled.
EUH071 : Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion
2006/15/EC : Europe. Indicative occupational exposure limit values
IE OEL : Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
2006/15/EC / TWA : Limit Value - eight hours
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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 - Emergen-

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cy 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 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:

Skin Corr. 1	H314
Eye Dam. 1	H318

Classification procedure:

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.

IE / EN

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Annex: Exposure Scenarios

Table of Contents

Number	Title
ES1	Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Storage.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).
ES2	Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Cosmetics, personal care products.; Perfumes, fragrances (PC28).; Cosmetics, personal care products (PC39).
ES3	Consumer use; Professional uses (SU22); Cosmetics, personal care products.; Perfumes, fragrances (PC28).; Cosmetics, personal care products (PC39).
ES4	Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

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ES 1: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Storage.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

1.1. Title section

Exposure Scenario name	: Distribution, Storage
Structured Short Title	: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Storage.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

Environment		
CS 1	Industrial use, Distribution, Storage	ERC2
Worker		
CS 2	Loading, Unloading	PROC8a
CS 3	Storage	PROC1
CS 4	(Re)packing of substances and mixtures	PROC9
CS 5	Product sampling	PROC2
CS 6	Material transfers, Closed systems	PROC1
CS 7	Loading, Unloading, Dedicated facility	PROC8b
CS 8	Industrial use of quality control	PROC15

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

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Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 1000 tonnes/year
Daily amount per site	: 3333 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 300
Technical and organisational conditions and measures	
Release fraction to air from process < 0.001 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Release fraction to soil from process < 0.001 Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP sludge treatment	: Do not use sludge as fertiliser. Sludge is disposed or recovered.
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

1.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

1.2.3. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

1.2.4. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 4 hours.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Use in semi-automated and predominantly enclosed filling lines.
Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

1.2.5. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Avoid carrying out operation for more than 15 minutes.

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a predominantly closed system provided with extract ventilation.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

1.2.6. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.

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Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

1.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines.
Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

1.2.8. Control of worker exposure: Use as laboratory reagent (PROC15)

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Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Freshwater	0.0013 mg/L (ECETOC TRA environment v2.0)	0.042

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Marine water	0.00014 mg/L (ECETOC TRA environment v2.0)	0.045
Freshwater sediment	0.0049 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	< 0.043
Marine sediment	0.00051 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	< 0.045
Agricultural soil	0.0009 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Sewage treatment plant	0.0021 mg/L (ECETOC TRA environment v2.0)	< 0.001

1.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	6.34 mg/m ³ (ECETOC TRA worker v2.0)	0.69
inhalative	systemic	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.03
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.21

1.3.3. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006

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inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021
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1.3.4. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.17 mg/m ³ (ECETOC TRA worker v2.0)	0.34
inhalative	systemic	long-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.09
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.62

1.3.5. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.634 mg/m ³ (ECETOC TRA worker v2.0)	0.069
inhalative	systemic	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.03
dermal	systemic	long-term	0.137 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.003
inhalative	local	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.21

1.3.6. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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		tor	mate	
inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021

1.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.1
inhalative	systemic	long-term	< 0.048 mg/m ³ (ECETOC TRA worker v2.0)	< 0.005
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	< 0.048 mg/m ³ (ECETOC TRA worker v2.0)	0.031

1.3.8. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.17 mg/m ³ (ECETOC TRA worker v2.0)	0.34
inhalative	systemic	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.015
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001

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			TRA worker v2.0)	
inhalative	local	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.1

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 2: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Cosmetics, personal care products.; Perfumes, fragrances (PC28).; Cosmetics, personal care products (PC39).

2.1. Title section

Exposure Scenario name	: Cosmetics, personal care products
Structured Short Title	: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Cosmetics, personal care products.; Perfumes, fragrances (PC28).; Cosmetics, personal care products (PC39).

Environment		
CS 1	Formulation, Cosmetics, personal care products	ERC2
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Closed systems	PROC3
CS 5	Mixing operations, Batch process	PROC5
CS 6	Material transfers, Non-dedicated facility	PROC8a
CS 7	Material transfers, Dedicated facility	PROC8b
CS 8	Material transfers, Small scale, Dedicated equipment	PROC9
CS 9	Tabletting, compression, extrusion or pelletisation	PROC14
CS 10	Laboratory activities	PROC15

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: solid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage (tonnes/year)	: 100 ton(s)/year

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Fraction of EU tonnage used in re- gion	: 1
Emission days	: 220
Technical and organisational conditions and measures	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process 0.001 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	

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Local exhaust ventilation
Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation
Handle substance within a predominantly closed system provided with extract ventilation.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

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When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

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Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.5. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Local exhaust ventilation	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

2.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, low dustiness
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

2.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, low dustiness
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	

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Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation
Transfer via enclosed lines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.8. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation
Use in semi-automated and predominantly enclosed filling lines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

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Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

2.2.9. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics
Covers percentage substance in the product up to 100 %.
Physical form of product : Solid, medium dustiness
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

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Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, low dustiness
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

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2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Freshwater	0.004 mg/L (ECETOC TRA environment v2.0)	0.128
Marine water	0.000405 mg/L (ECETOC TRA environment v2.0)	0.131
Freshwater sediment	0.015 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.128
Marine sediment	0.0015 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Agricultural soil	0.001 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.14
Sewage treatment plant	0.029 mg/L (ECETOC TRA environment v2.0)	< 0.005

2.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.02 mg/m ³ (ECETOC TRA worker v2.0)	< 0.003
inhalative	systemic	long-term	0.01 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.01 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007

2.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.1 mg/m ³	0.011

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			(ECETOC TRA worker v2.0)	
inhalative	systemic	long-term	0.05 mg/m ³ (ECETOC TRA worker v2.0)	< 0.005
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.05 mg/m ³ (ECETOC TRA worker v2.0)	0.033

2.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.2 mg/m ³ (ECETOC TRA worker v2.0)	0.022
inhalative	systemic	long-term	0.1 mg/m ³ (ECETOC TRA worker v2.0)	< 0.01
dermal	systemic	long-term	< 0.035 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.1 mg/m ³ (ECETOC TRA worker v2.0)	0.065

2.3.5. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1 mg/m ³ (ECETOC TRA worker v2.0)	0.11
inhalative	systemic	long-term	0.5 mg/m ³ (ECETOC TRA worker v2.0)	0.047
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.5 mg/m ³	0.33

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			(ECETOC TRA worker v2.0)	
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2.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1 mg/m ³ (ECETOC TRA worker v2.0)	0.11
inhalative	systemic	long-term	0.5 mg/m ³ (ECETOC TRA worker v2.0)	0.047
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.5 mg/m ³ (ECETOC TRA worker v2.0)	0.33

2.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.01 mg/m ³ (ECETOC TRA worker v2.0)	< 0.002
inhalative	systemic	long-term	0.005 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.005 mg/m ³ (ECETOC TRA worker v2.0)	< 0.004

2.3.8. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1 mg/m ³ (ECETOC TRA worker v2.0)	0.11

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			TRA worker v2.0)	
inhalative	systemic	long-term	0.5 mg/m ³ (ECETOC TRA worker v2.0)	0.047
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.5 mg/m ³ (ECETOC TRA worker v2.0)	0.33

2.3.9. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.2 mg/m ³ (ECETOC TRA worker v2.0)	0.022
inhalative	systemic	long-term	0.1 mg/m ³ (ECETOC TRA worker v2.0)	< 0.01
dermal	systemic	long-term	< 0.035 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.1 mg/m ³ (ECETOC TRA worker v2.0)	0.065

2.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.2 mg/m ³ (ECETOC TRA worker v2.0)	0.022
inhalative	systemic	long-term	0.1 mg/m ³ (ECETOC TRA worker v2.0)	< 0.01
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.1 mg/m ³ (ECETOC TRA worker v2.0)	0.065

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2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 3: Consumer use; Professional uses (SU22); Cosmetics, personal care products.; Perfumes, fragrances (PC28).; Cosmetics, personal care products (PC39).

3.1. Title section

Exposure Scenario name	: Cosmetics, personal care products
Structured Short Title	: Consumer use; Professional uses (SU22); Cosmetics, personal care products.; Perfumes, fragrances (PC28).; Cosmetics, personal care products (PC39).

Environment		
CS 1	Consumer use, professional use, Cosmetics, personal care products	ERC8a
Consumer		
CS 2	Consumer use, professional use, Cosmetics, personal care products	PC28, PC39

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Product (article) characteristics	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 200 ton(s)/year
Daily amount per site	: 0.4 kg/day
Fraction of Regional tonnage used locally	: 0.00075
Emission days	: 365
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d

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Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

3.2.2. Control of consumer exposure: Perfumes, fragrances (PC28) / Cosmetics, personal care products (PC39)

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Protection Target	Exposure estimate	RCR
Freshwater	0.0014 mg/L (ECETOC TRA environment v2.0)	0.044
Marine water	0.00014 mg/L (ECETOC TRA environment v2.0)	0.046
Freshwater sediment	0.0051 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.044
Marine sediment	0.00053 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.046
Agricultural soil	0.00091 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Sewage treatment plant	0.0026 mg/L (ECETOC TRA environment v2.0)	< 0.001

3.3.2. Consumer exposure: Perfumes, fragrances (PC28) / Cosmetics, personal care products (PC39)

Additional information on exposure estimation
In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 4: Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

4.1. Title section

Exposure Scenario name	: Manufacture of chemical products
Structured Short Title	: Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

Environment		
CS 1	Industrial use, Manufacture of chemical products	ERC4
Worker		
CS 2	Material transfers, Dedicated facility	PROC8b
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Industrial use, Spraying	PROC7
CS 5	Material transfers, Small scale, Dedicated equipment	PROC9
CS 6	Material transfers, Dedicated facility	PROC8b
CS 7	Rolling, Brushing	PROC10
CS 8	Closed systems, Elevated temperature	PROC22

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 57 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 300 ton(s)/year

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Daily amount per site	: 150 kg/day
Fraction of Regional tonnage used locally	: 0.15
Emission days	: 300
Technical and organisational conditions and measures	
Release fraction to air from process 0.05 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP sludge treatment	: Do not use sludge as fertiliser. Sludge is disposed or recovered.
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 864,000 m3/d
Local freshwater dilution factor	: 1,000
Local marine water dilution factor	: 100

4.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers concentrations up to 57 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Avoid carrying out operation for more than 1 hour.

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Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a predominantly closed system provided with extract ventilation. Local exhaust ventilation

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Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.2.4. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

4.2.5. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Avoid carrying out operation for more than 15 minutes.

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Use in semi-automated and predominantly enclosed filling lines.
Local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

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4.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.2.7. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.2.8. Control of worker exposure: Manufacturing and processing of minerals and/or metals at substantially elevated temperature (PROC22)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Solid, low dustiness
Temperature : < 100 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

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Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.0013 mg/L (ECETOC TRA environment v2.0)	0.043
Marine water	0.0024 mg/L (ECETOC TRA environment v2.0)	0.78
Freshwater sediment	0.005 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.043
Marine sediment	0.009 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.78
Agricultural soil	0.0032 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.32

4.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indica-	Exposure esti-	RCR
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		tor	mate	
inhalative	systemic	short-term	0.19 mg/m ³ (ECETOC TRA worker v2.0)	0.021
inhalative	systemic	long-term	< 0.096 mg/m ³ (ECETOC TRA worker v2.0)	0.009
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	< 0.096 mg/m ³ (ECETOC TRA worker v2.0)	0.062

4.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.007 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
inhalative	systemic	long-term	< 0.004 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	< 0.004 mg/m ³ (ECETOC TRA worker v2.0)	< 0.003

4.3.4. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.034
inhalative	systemic	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.015
dermal	systemic	long-term	42.9 mg/kg dry weight (ECETOC TRA worker v2.0)	0.74

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			TRA worker v2.0)	
inhalative	local	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.1

4.3.5. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	< 0.004
inhalative	systemic	long-term	< 0.016 mg/m ³ (ECETOC TRA worker v2.0)	< 0.002
dermal	systemic	long-term	6.86 mg/kg dry weight (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	< 0.016 mg/m ³ (ECETOC TRA worker v2.0)	0.01

4.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.01 mg/m ³ (ECETOC TRA worker v2.0)	0.001
inhalative	systemic	long-term	< 0.005 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	6.86 mg/kg dry weight (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	< 0.005 mg/m ³ (ECETOC TRA worker v2.0)	< 0.004

4.3.7. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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		tor	mate	
inhalative	systemic	short-term	0.12 mg/m ³ (ECETOC TRA worker v2.0)	0.013
inhalative	systemic	long-term	0.06 mg/m ³ (ECETOC TRA worker v2.0)	< 0.006
dermal	systemic	long-term	2.74 mg/kg dry weight (ECETOC TRA worker v2.0)	0.047
inhalative	local	long-term	0.06 mg/m ³ (ECETOC TRA worker v2.0)	0.04

4.3.8. Worker exposure: Manufacturing and processing of minerals and/or metals at substantially elevated temperature (PROC22)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.02 mg/m ³ (ECETOC TRA worker v2.0)	< 0.003
inhalative	systemic	long-term	0.02 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	2.83 mg/kg dry weight (ECETOC TRA worker v2.0)	0.049
inhalative	local	long-term	0.01 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.