

CARLYBIO

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

1.1 - Product identifier

Trade name/designation CARLYBIO
Chemical name
Product-type Mixture
UFI: HN5W-36DJ-VV12-NCVH

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

Relevant identified uses

- Refrigerating and air conditioning system decontaminant (heat exchangers, condensate pans...)
- Professional uses

1.3 - Details of the supplier of the safety data sheet

CARLY RCS
Z.I. DE BRAILLE
69380 LISSIEU France
Telephone : +33 (0)4 78 47 61 20
Website info@carly-sa.com www.carly-sa.com

1.4 - Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2	Irritation, Category 2
Eye Irrit. 2	Eye irritation - Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning

Hazard pictograms



CARLYBIO

Hazard statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

Precautionary statements

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see information on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents, container in an approved treatment center.

EUH-phrases : None

2.3 - Other hazards

PBT-substance. - The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

vPvB-substance. - The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Other hazards which do not result in classification - No further relevant information available.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
propan-2-ol, isopropyl alcohol, isopropanol	CAS No. : 67-63-0 Index No. : 603-117-00-0 EC No. : 200-661-7	> 1 - < 5	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 (H336) - H336	Not applicable
Composés de l'ion ammonium quaternaire, benzyl en C12-16 alkyl diméthyles, chlorures	CAS No. : 68424-85-1 Index No. : EC No. : 270-325-2	> 1 - < 2	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Dam. 1 - H318 Skin Corr. 1B - H314	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - No special measures are necessary.
- Provide fresh air.

CARLYBIO

<u>Following skin contact</u>	<ul style="list-style-type: none">- After contact with skin, wash immediately with plenty of water and soap.- In case of skin irritation, consult a physician.
<u>After eye contact</u>	<ul style="list-style-type: none">- Rinse immediately carefully and thoroughly with eye-bath or water.- In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	<ul style="list-style-type: none">- Rinse mouth thoroughly with water.- Do NOT induce vomiting.

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

<u>Symptoms and effects - Following inhalation</u>	- The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.
<u>Symptoms and effects - Following skin contact</u>	- Causes skin irritation.
<u>Symptoms and effects - After eye contact</u>	- Causes eye irritation.
<u>Symptoms and effects - After ingestion</u>	- The following symptoms may occur: Gastrointestinal complaints

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

- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	<ul style="list-style-type: none">- ABC-powder- Carbon dioxide (CO₂)- Foam- Extinguishing powder
<u>Unsuitable extinguishing media</u>	<ul style="list-style-type: none">- Full water jet

5.2 - Special hazards arising from the substance or mixture

<u>Special hazards arising from the substance or mixture</u>	- Thermal decomposition can lead to the escape of irritating gases and vapours.
<u>Hazardous decomposition products</u>	<ul style="list-style-type: none">- Carbon dioxide (CO₂)- Carbon monoxide- Nitrogen oxides (NO_x)

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

<u>For non-emergency personnel</u>	- Use personal protection equipment.
<u>For emergency responders</u>	- Wear personal protection equipment (refer to section 8).

6.2 - Environmental precautions

CARLYBIO

- Do not allow to enter into surface water or drains.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid contact with skin.
- Avoid contact with eyes.
- Avoid release to the environment.

Advices on general occupational hygiene

- Wash contaminated clothing prior to re-use.
- Used working clothes should not be worn outside the work area.

7.2 - Conditions for safe storage, including any incompatibilities

- Keep/Store only in original container.
- Protect against: Frost

7.3 - Specific end use(s)

- Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- See section 7. No additional measures necessary.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection



- Suitable protective clothing: lab coat



CARLYBIO

- Tested protective gloves must be worn



Environmental exposure controls

- See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	green	<u>Odour</u>	Citron
Odour threshold		No data available	
pH		7 <= V <= 9,5	
Melting point		No data available	
Freezing point		No data available	
Boiling point		98 °C ISO4925	
Flash point		> 60 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		0,95 kg/l <= V <= 1,05 kg/l	
Solubility (Water)		very soluble	
Solubility (Ethanol)		miscible	
Solubility (Acetone)		miscible	
Solubility (Organic solvents)		not determined	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		< 500 mPa.s à 5°C (ASTM2983)	

9.2 - Other information

VOC content	3 %
Minimum ignition energy	No data available
Conductivity	No data available

CARLYBIO

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

- Avoid:

- Frost

10.5 - Incompatible materials

- Highly oxidising substances

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Not classified

Toxicity : Mixture

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

Toxicity : Substances

Composés de l'ion ammonium quaternaire, benzyl en C12-16 alkyldiméthyles, chlorures (68424-85-1)

LD50 oral (rat)	795 mg/kg S 477
LD50 dermal (rat)	> 5000 mg/kg Valeur Calculée.

Skin corrosion/irritation - Irritation, Category 2 - Causes skin irritation

- Irritating to skin.

Serious eye damage/eye irritation - Eye irritation - Category 2 - Causes serious eye irritation

- Irritating to eyes.

Respiratory or skin sensitisation - Not classified

CARLYBIO

<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

- Harmful to aquatic life with long lasting effects.

Toxicity : Substances

Composés de l'ion ammonium quaternaire, benzyl en C12-16 alkyldiméthyles, chlorures (68424-85-1)

EC50 48 hr crustacea	0,016 mg/l 5Daphnia magna) dOSSI rEACH.
LC50 96 hr fish	0,85 mg/l (Onchorhynchus mykiss) (OECD 203)
ErC50 algae	0,03 mg/l Dossier REACH.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- The single components are biodegradable.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No further relevant information available.

12.5 - Results of PBT and vPvB assessment

- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 - Other adverse effects

CARLYBIO

- The substance has no ozone depleting potential.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- Observe local regulations concerning effluent treatment.
<u>Special precautions for waste treatment</u>	- Consult the appropriate local waste disposal expert about waste disposal.
<u>Community or national or regional provisions</u>	- Dispose according to legislation.

SECTION 14: Transport information

14.1 - UN number

Not applicable

14.2 - UN proper shipping name

14.3 - Transport hazard class(es)

14.4 - Packing group

14.5 - Environmental hazards

14.6 - Special precautions for user

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 3 %

- Biocide

Community safety, health and environmental provisions, national laws Disinfectants and algacides not intended for direct application to humans or animals.
Active substance: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides [68424-85-1] : 1.8 g/ 100g.

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - The evaluation was carried out according to the calculation method.

CARLYBIO

SECTION 16: Other information

SDS versions

Version	Issue date	Description of the amendments
16	15/02/2021	

Texts of the regulatory sentences

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Irritation, Category 2
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

*** **