MATERIAL SAFETY DATA SHEET

(according to Regulation no. 878/2020)

lacip® gel

Revision date: 08/03/2022 revision Nr: 3

SECTION 1: Chemical product and company identification

1.1 Product identifier

Product chemical name:	lacip® gel
Chemical family:	Mixture
Molecular formula:	Not applicable
UFI	UAU1-J10X-Q00V-R2DH

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

1.2.1 Relevant identified uses

liquid detergent and disinfectant for manual dishwashing

1.2.2 Uses advised against

No uses advised against

1.3 Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification as hazardous according to European Regulation (EC) 1272/2008 (CLP/GHS)

Skin Corr/Irr. 2	H315	Causes skin irritation
Eye Dam/Irr. 1	H318	Causes serious eye damage
Aquatic Acute 1	H400	Very toxic to aquatic life

2.2 Label elements

2.2.1 Labelling according to Regulation EC No 1272/2008 (CLP/GHS)

The mixture is classified and labeled according to the CLP Regulation

Hazard pictograms

GHS05

GHS09

Signal word

Danger

Hazards statements

H315	:	Causes skin irritation
H318	:	Causes serious eye damage
H400	:	Very toxic to aquatic life

Precautionary statements

P102	:	Keep out of reach of children.
P280	:	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	:	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P332 + P313	:	If skin irritation occurs: Get medical advice/attention.
P510	:	Dispose of contents/container in accordance with local/regional/national/international regulation.
EUH210	:	Safety data sheet available on request.

2.3. Other hazards
No data available

SECTION 3: Composition / Information on ingredients

INGREDIENT	EC NUMBER	CAS NUMBER	REGISTRATION NUMBER	w/w %	CLP CLASSIFICATION	
C12-C16 Alkyl dimethyl benzyl ammonium chloride	264-151-6	63449-41-2		5-15	Acute Tox. 4 (oral), Acute Tox. 4 (dermal), Skin Corr.1B, Aquatic Acute 1	H302 H312 H314 H400
alcohols, C12-14, ethoxylated		68439-50-9		<5	Acute Tox. 4 (oral), Eye Dam/Irr. 1, Aquatic Acute 1	H302 H318 H400
mixture of fragrances				<5	Flam. Liq. 3, Asp. Tox. 1, Skin Corr/Irr. 2, Skin. Sens. 1, Aquatic Chronic 2	H226 H304 H315 H317 H411

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

After inhalation	:	Keep the patient calm, remove to fresh air and seek medical advice.
After skin contact	:	Wash with plenty of water and soap. Get medical advice. Take off clothing.
After contact with eyes	:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
After ingestion	:	Rinse mouth.
General instructions	:	Call immediately a POISON CENTER or a doctor.

4.2 Most important symptoms and effects, acute and delayed
There is no available data
4.3 Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (disinfection, vital functions), no known specific antidote.

SECTION 5: Fire fighting measures

5.1 Extinguishing media
5.1.1 Suitable extinguishing media
Water, CO_2, dry powder
5.1.2 Unsuitable extinguishing media
No unsuitable extinguishing media known
5.2 Special exposure hazards arising from the substance
Liberates toxic oxides of carbon, nitrogen and sulfur.
5.3 Recommendation for fire-fighters
Wear personal protective equipment
5.4 Additional information
Separately collected contaminated water must not be discharged into drains.
Containers with flammable materials must be cooled with high pressure water.
Fire residues and contaminated water from damping shall be deposited in accordance with legal regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear appropriate approved protective equipment.
6.2 Environmental protection measures
Do not allow to enter drains or waterways with earth or sand.
For neutralization use sodium sulphate or other neutralising substance.
Inform local authorities.
6.3 Restriction and cleaning methods and materials used
Recover the product. The product might, where appropriate, be absorbed by inert material (e.g. sand, sawdust).
Place on plastic barrels for disposal in accordance with local laws and regulations.
6.4 Reference to other sections
See heading 7 for information on safe handling.
See heading 8 for information on personal protection equipment.
See heading 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precaution for safe handling

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

Wash your hands thoroughly after handling.

7.2 Condition for storage, including any incompatibilities

Store locked up. Keep only in original container.

Use only outdoors or in a well-ventilated area.

Store away from other materials.

7.3 Specific end use(s)

No further recommendations

SECTION 8: Exposure control / Personal protection

There is no available data for the mixture, but for the following materials are provided:

8.1 Control parameters

C12-C16 Alkyl dimethyl benzyl ammonium chloride

Information not available.

alcohols, C12-14, ethoxylated

Occupational exposure limits: No exposure limit value known.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels: No DELs available.

Predicted effect concentrations: No PECs available.

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

8.2.2 Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with skin.

Apply technical measures to comply with the Occupational Exposure Limits.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product.

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material,but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The breakthrough time according to the regulation EN 374 Part III, is not applicable in real conditions.

Therefore, a maximum usage time is proposed, amounting to 50% breakthrough time.

For the permanent contact in work areas without heightened risk of injury (eg Laboratory) gloves of PVA are suitable.

Eye protection:

Tightly sealed goggles

Body protection:

Use protective suit.

8.2.3 Environmental exposure controls

The established local emission limits of hazardous substances must be followed, if any.

Do not enter the sewage system or groundwater.

Risk management measures: Ensure good ventilation of premises security.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Property	Value
Physical form at 20 °C and 101.3 kPa	orange fragranced liquid
Melting point	not available
Boiling point	not available
Density	1,05
Vapour pressure	not available
Solubility in water	fully soluble
Partition coefficient : n-octanol/water (logarithmic)	not available
pH	7,95

Property	Value
Flash point	not available
Flammability	not available
Explosive properties	not available
Auto-ignition temperature	not available
Oxidising properties	not available
Viscosity	not available
Stability in organic solvents and identification of relevant degradation products.	not available
Decomposition temperature	not available

9.2 Other information

9.2.1. information with regard to physical hazard classes

See section 7 for information about safe handling

See section 8 for information about Personal protective Equipment

9.2.2. Other safety characteristics

Property	Value
Formation of explosive dust/air mixtures	not available
Mechanical sensitivity	not available
Gas group	not available
acid/alkaline reserve	not available
Evaporation rate	not available
Miscibility	not available
Conductivity	not available

Property	Value
Self-accelerating polymerisation temperature	not available
Redox potential	not available
Radical formation potential	not available
Photocatalytic properties	not available
Oxidizing properties	not available
Corrosiveness	not available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous situations are arised if the product is stored and handled under normal conditions.

10.2 Chemical stability

Stable under normal conditions of storage, handling and use (see Chapter 7).

10.3 Possibility of hazardous reactions

No available data.

10.4 Condition to avoid

No available data.

10.5 Materials to avoid

No available data.

10.6 Hazardous decomposition products

No available data.

SECTION 11: Toxicological information

There is no available data for the mixture, but for the following materials are provided:

11.1 Information on toxicological effects:

C12-C16 Alkyl dimethyl benzyl ammonium chloride

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: cutaneous absorption and ingestion of this product are harmful. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea). This product may slightly irritate mucosas, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours.

Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

11.2.1 Endocrine Disrupting Properties

Out of scope

alcohols, C12-14, ethoxylated
Acute toxicity : Alkyl polyglycol ether, LD50 Oral (rat) : 200 to 2000 mg/kg
Irritation/Corrosion
Skin : Not available.
Eyes : Not available.
Respiratory : Not available.
Sensitizer
Skin : Not available.
Respiratory : Not available.
Mutagenicity : Not available.
Carcinogenicity : Not available.
Reproductive toxicity : Not available.
Teratogenicity : Not available.
Specific target organ toxicity (single exposure) : Not available.
Specific target organ toxicity (repeated exposure) : Not available.
Aspiration hazard : Not available.
Information on the likely routes of exposure: Not available.

Potential acute health effects
Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.
Skin contact : No known significant effects or critical hazards.
Eye contact : Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics
Inhalation : No specific data.
Ingestion : Adverse symptoms may include the following: stomach pains
Skin contact: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur
Eye contact : Adverse symptoms may include the following: pain, watering, redness
Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure
Potential immediate effects: Not available.
Potential delayed effects : Not available.
Potential chronic health effects
General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Interactive effects : Not available.
Absorption : Not available.
Distribution : Not available.
Metabolism : Not available.
Elimination : Not available.
Other information : Not available.

Endocrine Disrupting Properties
Out of scope

SECTION 12: Ecological information

There is no available data for the mixture, but for the following materials are provided:
C12-C16 Alkyl dimethyl benzyl ammonium chloride
This product is dangerous for the environment and highly toxic for aquatic organisms.
12.1. Toxicity
Information not available.
12.2. Persistence and degradability
BENZALKONIUM CHLORIDE: not easily biodegradable.
12.3. Bioaccumulative potential
Information not available.
12.4. Mobility in soil
Information not available.
12.5. Results of PBT and vPvB assessment
On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.
12.6. Other adverse effects
Information not available.

12.7. Endocrine Disrupting Properties
Out of scope

alcohols, C12-14, ethoxylated

12.1 Toxicity
Alkyl polyglycol ether. Acute LC50: 0,1 to 1 mg/L (fish 96 hours).
12.2 Persistence and degradability
Argument by Analogy CESIO
12.3 Bioaccumulative potential
Not available.
12.4 Mobility in soil
Soil/water partitioncoefficient (KOC): Not available.
Mobility : Not available.
12.5 Results of PBT and vPvB assessment
PBT : Not applicable.
P: Not available. B: Not available. T: Not available.
vPvB : Not applicable.
vP: Not available. vB: Not available.
12.6 Other adverse effects: Not known significant effects or critical hazards.
Other information: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.7. Endocrine Disrupting Properties
Out of scope

SECTION 13: Disposal considerations

13.1 Waste disposal methods

Recycle or regenerate the product if is it possible. Waste content material characterization according to the EWC 20.01.29*. Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

13.2 Recommendations

Dispose of in accordance with local regulations. The disposal remains the responsibility of the waste treatment operator.

SECTION 14: Transport information

Not classified as hazardous under transport regulations.

SECTION 15: Regulatory information

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

Regulation 1907/2006 (REACH)

Annex XIV: List of substances subject to authorization.

Annex XVII: Restrictions on production, marketing and use of certain dangerous substances, mixtures and products: Not applicable

15.1.2 Other regulatory information

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture. Chemical safety assessment has been carried out for one or more components of the mixture.

SECTION 16: Other information

16.1 Indication of changes

This is the first version of the Safety Data Sheet for the product, in accordance with Regulations (EC) 1907/2006, 1272/2008, 37b / 2012, 453/2010, 830/2015 1148/2019 and 878/2020 , in order to include the latest information of the mixture and its components.

16.2 Abbreviations

vPvB	:	Very persistent and very bioaccumulative substances
PBT	:	Persistent, Bioaccumulative and Toxic
ADN	:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
HOC	:	Halogenated organic compounds (HOC)
CAS	:	Chemical Abstracts Service
DMEL	:	Derived Minimal Effect Level (genotoxic substances)
DNEL	:	Derived No Effect Level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Dangerous Goods
LC50	:	Lethal Concentration 50%
LD50	:	Lethal Dose 50%
MARPOL	:	International Convention for the Prevention of Pollution From Ships
NOAEC	:	No Observed Adverse Effect Concentration
NOAEL	:	No Observed Adverse Effect Level
NOEC	:	Non Observed Effect Concentration
OEL	:	Occupational Exposure Limit
PEC	:	Predicted Environmental Concentration
PNEC	:	Predicted No Effect Concentration
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemicals
PNEC	:	Predicted no effect concentration

16.3 Key literature references and sources of data

The Safety Data Sheets of suppliers were data sources, as well as Regulations (EC) 1907/2006, 1272/2008, 37b / 2012 and 453/2010.1272/2008, 37b/2012, 453/2010, 830/2015, 1148/2019 και 878/2020.

16.4 Procedure used to derive the classification of the product according to Article 9 of Regulation 1272/2008 (CLP)

Experiments have not been carried out for the mixture. Information on product classification, as presented in section 2.1 of the SDS, is based on data relevant to the classification and properties of individual components of the mixture. Based on CLP, defining the burden of proof, using expert judgment in accordance with section 1.1.1 of Annex I, weighing all the available information of the mixture.

16.5 List of the hazard statements mentioned in section 3

H314	:	Causes severe skin burns and eye damage
H315	:	Causes skin irritation
H317	:	May cause an allergic skin reaction
H318	:	Causes serious eye damage
H226	:	Flammable liquid and vapour
H302	:	Harmful if swallowed
H304	:	May be fatal if swallowed and enters airways
H312	:	Harmful in contact with skin
H400	:	Very toxic to aquatic life
H411	:	Toxic to aquatic life with long-lasting effects

16.6 Training advice

No special staff education is required. Everyone should be fully informed about the necessary procedures (scheduled and unscheduled) and the precautionary measures described in this Safety Data Sheet (main body and ES). These measures and procedures must be followed each time the material is used.

Note: The data contained in this Safety Data Sheet are based on our state of knowledge at the above-specified date. It is intended to describe the product from a point of view of health and safety requirements. It is not therefore constructed as guaranteeing specific properties.