

Safety Data Sheet

SANI BACT



Safety Data Sheet dated 20/11/2015, version 1
This version cancels and substitutes any previous version

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

1.1. Product identifier

Mixture identification:

Trade name: SANI BACT

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

Recommended use:

Antimicrobial disinfectant for surfaces, bactericidal and virucidal.

1.3. Details of the supplier of the safety data sheet

Company:

ERRECOM SRL

Via Industriale, 14

Corzano (BS) Italy

Tel. +39 030/9719096

Competent person responsible for the safety data sheet:

lab@errecom.it

1.4. Emergency telephone number

+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.

Warning, Aquatic Acute 1, Very toxic to aquatic life.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary statements:

P273 Avoid release to the environment.

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

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Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides
Didecyldimethylammonium chloride

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards
















SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 3% - < 5%	Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	CAS: 85409-23-0 EC: 287-090-7	 3.1/4/Oral Acute Tox. 4 H302  3.2/1B Skin Corr. 1B H314  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
>= 3% - < 5%	Didecyldimethylammonium chloride	CAS: 7173-51-5 EC: 230-525-2	 3.1/3/Oral Acute Tox. 3 H301  3.2/1B Skin Corr. 1B H314  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
>= 3% - < 5%	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS: 68424-85-1 EC: 270-325-2	 3.1/4/Oral Acute Tox. 4 H302  3.2/1B Skin Corr. 1B H314  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 3%	propan-2-ol; isopropyl alcohol; isopropanol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-21194575 58-25-XXXX	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No information available.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

TLV TWA - 200 ppm, A4 - 491,53 mg/m³, A4

TLV STEL - 400 ppm, A4 - 983,07 mg/m³, A4

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Tightly fitting safety goggles.

Protection for skin:

Choose body protection according to the amount and concentration of dangerous substance at the work place.

No special protective equipment required.

Protection for hands:

Suitable material:

NBR (nitrile rubber).

Break through time : > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

In the case of vapour formation use a respirator with an approved filter.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: liquid clear

Odour: similar to soap

Odour threshold: N.A.

pH: 7

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Flash point: > 100 ° C

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Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	0,985 g/cm ³ (20 °C)
Solubility in water:	soluble
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	13 mPa · s
Explosive properties:	not explosive
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
 - None
- 10.4. Conditions to avoid
 - Store away from heat.
- 10.5. Incompatible materials
 - Strong oxidizing agents.
- 10.6. Hazardous decomposition products
 - None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
 - Toxicological information of the mixture:
 - N.A.
 - Toxicological information of the main substances found in the mixture:
 - Didecyldimethylammonium chloride - CAS: 7173-51-5
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat 238 mg/kg - Source: Method: OECD Test Guideline 401
 - Test: LD50 - Route: Skin - Species: Rabbit 3342 mg/kg
 - b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Source: Method: OECD Test Guideline 404 - Notes: Exposure time: 3 min
 - d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Route: Skin Negative - Source: Method: US-EPA - Notes: Buehler Test Species: Guinea pig
 - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
 - a) acute toxicity:
 - Test: LD50 - Route: Oral - Species: Rat 344 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit 3340 mg/kg - Duration: 24 h
 - b) skin corrosion/irritation:
 - Test: Skin Irritant - Species: Rabbit Positive - Duration: 24 h - Source: DOT - Notes: Corrosive

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- c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Positive - Source: DOT - Notes: Corrosive
- d) respiratory or skin sensitisation:
Test: Skin Sensitization Negative - Source: Buehler Test OECD TG 406 - Notes:
Species: Guinea pig
- e) germ cell mutagenicity:
Test: Genotoxicity Negative - Source: Ames Test OECD TG 471 - Notes: Species:
Salmonella typhimurium
Test: Genotoxicity Negative - Source: OECD TG 473 - Notes: Chromosome aberration
in vitro, Human lymphocytes

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Didecyldimethylammonium chloride - CAS: 7173-51-5

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 0.19 mg/l - Duration h: 96 - Notes: Species:
Pimephales promelas (fathead minnow) Acute toxicity Method: US-EPA
Endpoint: EC50 - Species: Daphnia 0.062 mg/l - Duration h: 48 - Notes: Species:
Daphnia magna (Water flea) Immobilization Method: EPA-FIFRA
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish 0.032 mg/l - Duration h: 816 - Notes: Species: Danio
rerio (zebra fish) Chronic toxicity Method: OECD Test Guideline 210
Endpoint: NOEC - Species: Daphnia 0.010 mg/l - Duration h: 504 - Notes: Species:
Daphnia magna (Water flea) Reproduction Test Method: OECD Test Guideline 211
- c) Bacteria toxicity:
Endpoint: EC50 11 mg/l - Duration h: 3 - Notes: Species: activated sludge Respiration
inhibition Method: OECD Test Guideline 209
- e) Plant toxicity:
Endpoint: ErC50 - Species: Algae 0.026 mg/l - Duration h: 96 - Notes: Species:
Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test
Guideline 201

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS:
68424-85-1

- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 0.28 mg/l - Duration h: 96 - Notes: Species:
Pimephales promelas (fathead minnow) Acute Toxicity Method: US-EPA
Endpoint: EC50 - Species: Daphnia 0.016 mg/l - Duration h: 48 - Notes: Species:
Daphnia magna (Water flea) Immobilization Method: OECD Test Guideline 202
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish 0.032 mg/l - Duration h: 816 - Notes: Species:
Pimephales promelas (fathead minnow) Early-life Stage Method: EPA-FIFRA

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Endpoint: NOEC - Species: Daphnia 0.0042 mg/l - Duration h: 504 - Notes: Species: Daphnia magna (Water flea) Reproduction Test Method: EPA-FIFRA

c) Bacteria toxicity:

Endpoint: EC50 7.75 mg/l - Duration h: 3 - Notes: Species: activated sludge
Respiration inhibition Method: OECD Test Guideline 209

e) Plant toxicity:

Endpoint: ErC50 - Species: Algae 0.049 mg/l - Duration h: 72 - Notes: Species: Pseudokirchneriella subcapitata (green algae) Species: Pseudokirchneriella subcapitata (green algae)
Cell multiplication inhibition test Method: OECD Test Guideline 201

12.2. Persistence and degradability

Didecyldimethylammonium chloride - CAS: 7173-51-5

Biodegradability: Readily biodegradable - Test: Modified Sturm Test - Duration: N.A. - %: 72 - Notes: Testing period: 28 d Method: OECD Test Guideline 301B

Biodegradability: N.A. Test: Die-Away Test - Duration: N.A. - %: 93.3 - Notes: Testing period: 28 d

Biodegradability: N.A. Test: OECD Confirmatory Test: - Duration: N.A. - %: 91 - Notes: Testing period: 24 - 70 d Method: OECD Test Guideline 303 A

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1

Biodegradability: N.A. Test: OECD Confirmatory Test: - Duration: N.A. - %: 90 - Notes: Method: OECD Test Guideline 303 A

Biodegradability: N.A. Test: Modified SCAS Test - Duration: N.A. - %: 99 - Notes: Testing period: 7 d Method: OECD Test Guideline 302 A

Biodegradability: Readily biodegradable - Test: CO2 Evolution Test - Duration: N.A. - %: 95.5 - Notes: Testing period: 28 d Method: OECD Test Guideline 301B

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 3082

IATA-UN Number: 3082

IMDG-UN Number: 3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds,

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IATA-Shipping Name:	C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlori, Dicyldimethylammonium chloride) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlori, Dicyldimethylammonium chloride)
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlori, Dicyldimethylammonium chloride)
14.3. Transport hazard class(es)	
ADR-Class:	9
ADR - Hazard identification number:	90
IATA-Class:	9
IATA-Label:	9
IMDG-Class:	9
14.4. Packing group	
ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
14.5. Environmental hazards	
ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
14.6. Special precautions for user	
ADR-Subsidiary risks:	-
ADR-S.P.:	274 335 601
ADR-Tunnel Restriction Code:	(E)
IATA-Passenger Aircraft:	964
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	964
IATA-S.P.:	A97 A158
IATA-ERG:	9L
IMDG-EmS:	F-A , S-F
IMDG-Subsidiary risks:	-
IMDG-Storage category:	Category A
IMDG-Storage notes:	-
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
- Restrictions related to the product:
- Restriction 3

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Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H301 Toxic if swallowed.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

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KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.