

INCO® 264

According to the Regulation No. 1907/2006/EC (REACH) and No. 2015/830/EC

Version: 2022-09-07 / EN

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**Mixture name: **INCO® 264**

Chemical name: Alkyldimethylbenzylammonium chloride and didecyldimethylammonium chloride aqueous solution.

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

Relevant identified uses: Inhibitor of biofouling for cooling water treatment.

1.3. Details of the supplier of the safety data sheet

Company: JSC „Arionex LT“
Address: Ašigalio g. 6c, LT-49142, Kaunas
Telephone: +370 37 214669
E-mail: info@arionex.eu

1.4. Emergency telephone

Poisoning control and information bureau
Address: Šiltnamų g. 29, LT -2043 Vilnius, Lithuania.
Telephone number: 8 5 236 20 52
Fax: 8 5 236 21 42
E-mail: info@tox.lt
Work time: All day (24 hours).

SECTION 2: Hazards Identification**2.1. Classification of the substance or mixture****According to Regulation (EC) No 1272/2008 [CLP]**

Skin corrosion, Category 1	H314	Causes severe skin burns and eye damage.
Aquatic Acute, Category 1	H400	Very toxic to aquatic life.
Aquatic Chronic, Category 1	H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements**According to Regulation (EC) No 1272/2008 [CLP].****Pictogram:****GHS05****GHS09****Signal Word:** Dangerous.**Hazardous substances in the mixture:**

Alkyldimethylbenzylammonium chloride, didecyldimethylammonium chloride

Hazard Statement:

H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Avoid contact during pregnancy/while nursing.
P310 Immediately call a POISON CENTER or doctor/physician.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P273 Avoid release to the environment.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container to accordance with local regulations.

2.3. Other hazards

No specific dangers known, if the regulations/notes for storage and handling are considered.

SECTION 3: Composition/Information on Ingredients**3.1. Substances**

Not applicable.

3.2. Mixtures

Chemical name: Alkyldimethylbenzylammonium chloride and didecyldimethylammonium chloride aqueous solution.

CAS No.	EINECS No.	Index No.	REACH Registration No.	Concentration range (%)	Name	Classification according to Regulation (EC) No 1272/2008 [CLP]
68424-85-1	270-325-2	-	-	7,0-12,0	Alkyldimethylbenzylammonium chloride	Flam. Liq. 3 H226 Acute Tox oral . 4, H302 Skin Corr. 1B; H314 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
7173-51-5	230-525-2	-	-	7,0-12,0	Didecyldimethylammonium chloride	Flam. Liq. 3 H226 Acute Tox oral . 4, H302 Skin Corr. 1B; H314 Eye Dam 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 2 H411

For the full text of the H-statements mentioned in the Section, see Section 16.

SECTION 4: First-Aid Measures**4.1. Description of first aid measures**

Remove contaminated clothing.

If inhaled:

The product is not volatile.

On skin contact:

Remove contaminated clothing, footwear, watches, etc. And clean thoroughly before re-using them.

Wash immediately with plenty of water. Seek medical treatment in all cases of irritation or burns.

On contact with eyes:

Immediately wash affected eyes for at least 10-15 minutes under running water with eyelids held open.

Remove contact lenses if present and easy to do. Get immediate medical attention.

On ingestion:

Immediately rinse mouth and drink at least 1.5 liters of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed**Both acute symptoms:**

If inhaled: No information available.

On skin contact: May cause skin irritation, sensitization or corrosion.

On contact with eyes: Causes serious eye damage.

On ingestion: May cause irritation of mouth, throat and stomach.

Delayed symptoms:

If inhaled: No information available.

On skin contact: Irritation, redness and allergic skin reaction.

On contact with eyes: Pain, tearing, redness, damage.

On ingestion: Stomach ache.

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

Treatment: No information available.

SECTION 5: Fire-Fighting Measures**5.1. Extinguishing media**

Suitable extinguishing media:

All types of extinguishing media are suitable: water, dry powder, carbon dioxide, foam, sand and other.

5.2. Special hazards arising from the substance or mixture

Dangerous products of combustion of the mixture was not observed.

5.3. Advice for fire-fighters

Wear protective working tools such boots, coveralls, gloves, eye and face protection (EN 469).

SECTION 6: Accidental Release Measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Avoid contact with skin and eyes. Wear personal protective equipment as described under Heading 8.

6.1.2. For emergency responders

Avoid contact with skin and eyes. Wear personal protective equipment as described under Heading 8.

6.2. Environmental precautions

Do not wash product down sewage and drainage systems or into bodies of water.

6.3. Methods and material for containment and cleaning up

Absorb the spillage into sand or other inert material, shovel into suitable containers. If containment is not possible and material enters the drain, dilute as much as possible with water.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage**7.1. Precautions for safe handling**

In the workplace must be good ventilation. In the workplace do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a cool, dry area in PVC or HDPE containers.

Storage stability:

Keep storage area should be dry, cool, 0 to 40 °C. Avoid freezing.

Unsuitable (incompatible) storage of chemicals: acids.

7.3. Specific end use(s)

Used as inhibitor of biofouling for cooling water treatment.

The concentrated product is dosed using a dosing pump proportional to the amount of treated water.

SECTION 8: Exposure Controls/Personal Protection**8.1. Control parameters**

Components with occupational exposure limits:

No occupational exposure limits known.

8.2. Exposure controls**8.2.1. Personal protective equipment**

General safety and hygiene measures: General indoor ventilation. Do not eat, drink or smoke when working with product to avoid contact with skin or mouth. Remove contaminated clothing, footwear, etc., and clean thoroughly before re-using them.

Respiratory protection. It is not necessary. In case of vapor formation, use respiratory protective device with approved filter (EN 141). Respirator with ABEK filter.

Eye protection. Wear approved glasses or safety goggles to prevent contact with eyes (EN 166)

Skin protection. Wear rubber gloves, usual work clothes, rubber boots to prevent contact with skin.

Gloves: Suitable material: Butadiene-free rubber, penetration time: > 480 min.

8.2.2. Environmental exposure controls

Do not wash product down sewage and drainage systems or into bodies of water.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Form:	Liquid;
Colour:	Whitish, opalescent;
Odour:	Weak smell product;
Odour threshold:	Not determined;
pH, (20 °C):	12,0 ÷ 14,00;
Melting / freezing point:	-2°C;
Density (20 °C):	0,98 ± 0,05g/cm ³ ;
Solubility:	Soluble in water;
Boiling point/range:	100 ÷ 130 °C;
Flash point:	Not determined;
Evaporation rate:	Not determined;
Flammability:	Not self-igniting;
Partitioning coefficient n-octanol/water (log K_{ow}):	Not applicable;
Self ignition:	Not determined;
Thermal decomposition:	Not determined;
Explosion hazard:	Not explosive;
Viscosity, dynamic:	Not determined;
Oxidizing properties:	None.

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9.2. Other Information

No data available.

SECTION 10: Stability and Reactivity**10.1. Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated (see Heading 7).

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid flames, sources of ignition (spark, heating surfaces).

10.5. Incompatible materials

The heat released by mixing with strong acids (exothermic reaction). Strong oxidizing agents.

10.6. Hazardous decomposition productsThe product is stable, but heating may release hazardous decomposition products: CO, CO₂, NO_x, HCl.**SECTION 11: Toxicological Information****11.1. Information on toxicological effects****Acute toxicity****Eye contact.** Direct contact with product may irritation or inflammation.**Skin contact.** Direct contact with product may cause skin irritation or skin burn.

Tests with rabbit LD50 3340 mg/kg (Alkyldimethylbenzylammo-nium chloride), LD50 3342 mg/kg (Didecyldimethylammonium chloride).

Ingestion. Harmful if swallowed. Test with rats: LD50 344 mg/kg (Alkyldimethyl-benzylammonium chloride), LD50 238 mg/kg (Didecyldimethylammonium chloride) ATE_{mix} = 2038 mg/kg.

Tests with rat LD50 > 300 mg / kg.

Inhalation. Not volatile.**11.2. Chronic effects****Inhalation.** Not volatile.**Carcinogenicity.** None.**Mutagenicity.** None.**Reproductive toxicity.** None.**Contact dermatitis/Sensitizing effect.** Allergic and sensitive people may develop dermatitis.**11.3. Medical conditions aggravated by exposure**

None.

SECTION 12: Ecological Information**12.1. Toxicity**

Hazardous to aquatic organisms.

Ecotoxicity to aquatic organisms:

Alkyldimethylbenzylammonium chloride (CAS 68424-85-1):

Fish Pimephales promelas LC50 0,28 mg/l/96 h.

Pimephales promelas NOEC 0,032 mg/l/34 d.

Daphnia magna EC50 0,016 mg/l/ h.

NOEC 0,0042 mg/l/21 d.

Seaweed Pseudokirchneriella subcapitata EC50 0,049 mg/l/72 h.

Bacteria Ativated sludge EC50 7,75 mg/l/3h.

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Didecyldimethylammonium chloride (CAS 7173-51-5):

Fish	Pimephales promelas LC50 0,19 mg/l/96 h.
	Danio rerio NOEC 0,032 mg/l/34d.
Daphnia magna	EC50 0,062 mg/l/48 h.
	NOEC 0,014 mg/l/21d.
Bacteria	Ativated sludge EC50 11 mg/l/3h.

12.2. Persistence and degradability

Completely soluble in water.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Not volatile.

12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6. Other adverse effects

Additional advice: No data available.

12.7. Additional information

None.

SECTION 13: Disposal Considerations**13.1. Waste treatment methods**

Not classified as harmful to aquatic organisms. Not classified as harmful to birds. Not allowed to dispose of empty containers or waste into the environment. Dispose of according to the local legislation. Empty containers should be returned to the supplier.

SECTION 14: Transport Information

The product is not covered by the international regulation on the transport of dangerous goods (IMDG/ IATA, ADR/RID) and therefore no classification is required. No special precautions are needed apart from those mentioned under Heading 8.

14.1. UN Number

None

14.2. Proper Shipping Name

None.

14.3. Transport hazard class(es)

None.

14.4. Packing Group

None.

14.5. Environmental hazards

Yes. Environmentally hazardous liquid.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

None.

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SECTION 15: Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 2015/830/EC, Regulation (EC) No 1272/2008 [CLP], Directive 67/548/EEC or 1999/45/EC.

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required.

SECTION 16: Other Information

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INCO® 264 safety data sheets and technical information developed by the manufacturer.

Full text of H-Statements

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Abbreviations:

CAS – Chemical Abstracts Service.

EINECS – European Inventory of Existing Chemical Substances.

GHS Globally Harmonised System of Classification and Labelling of Chemicals

CLP Classification, labelling and packaging of substances and mixtures.

Product INCO® 264 Label

Skin corrosion, Category 1

Aquatic Acute, Category 1

Aquatic Chronic, Category 1

Pictogram:**GHS05****GHS09**

Signal Word: Dangerous.

Hazardous substances in the mixture: Alkyldimethylbenzylammonium chloride, didecyldimethylammonium chloride

Hazard Statement:

- H314 Causes severe skin burns and eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

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

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P273 Avoid release to the environment.

The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user. It is implicate that the user is responsible for determining appropriate safety measures and for applying the legislation covering his own activities. Safety data sheet available for professional user on request.

