

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

Safety Data Sheet dated 6/7/2017, version 1



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

1.1. Product identifier

Mixture identification:

Trade name: PK 442 B LEMON BATHROOM

Trade code: START-UP 400229 – REFILL BOX 400239

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

Recommended use:

Scented bathroom daily cleaner.

PROFESSIONAL USE.

Uses advised against:

Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

Company:

Co. Ind. s.c.

Via Saliceto 22/H

40013 Castel Maggiore (BO) - ITALY

Tel. +39 051 6328511 - Fax +39 051 701152

Competent person responsible for the safety data sheet:

allertasanificazione@coind.it

1.4. Emergency telephone number

Company emergency telephone number: Tel. +39 051 6328511 (h 8.00 – 17.00).

Poison centers (h24):

Ospedale Niguarda Ca' Granda di Milano Tel. +39 02 66101029.

Ospedale Pediatrico Bambino Gesù di Roma Tel. +39 06 68593726

Az. Osp. Univ. Di Foggia Tel. +39 0881 732326

Az. Osp. A. Cardarelli di Napoli Tel. +39 081 7472870

Policlinico Umberto I di Roma Tel. +39 06 49978000

Policlinico A. Gemelli di Roma Tel. +39 06 3054343

Az. Osp. Careggi U.O. Tossicologia Medica di Firenze Tel. +39 055 7947819

Centro Nazionale di Informazione Tossicologica di Pavia Tel. +39 0382 24444

Azienda Ospedaliera Papa Giovanni XXII di Bergamo Tel. +39 800883300

Poison centres of WHO Member States:

http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Skin Corr. 1B, H314 Causes severe skin burns and eye damage.

Eye Dam. 1, H318 Causes serious eye damage.

Aquatic Acute 1, H400 Very toxic to aquatic life.

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P260 Do not breathe spray.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye and face protection.

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

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 a doctor.

P391 Collect spillage.

P501 Dispose of container in accordance with local regulation.

Special Provisions:

None

Contains

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

4-TERT-BUTYLCYCLOHEXYL ACETATE. May produce an allergic reaction.

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

None.

Ingredients (Reg. EC n.648/2004):

5–15%: EDTA, non ionic surfactants, cationic surfactants.

<5%: Amphoteric surfactants.

Perfume (LIMONENE, BENZYL SALICYLATE, GERANIOL, EUGENOL, LINALOOL, ALPHA-ISOMETHYL IONONE).

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMNON BATHROOM (BULLET)
--	---	--


















SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
10 - 15 %	POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-	CAS: 160875-66-1	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318
5 - 8.5 %	3-METHOXY-3-METHYLBUTAN-1-OL	CAS: 56539-66-3 EC: 260-252-4	 3.3/2 Eye Irrit. 2 H319
4 - 7 %	Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides	CAS: 85409-22-9 EC: 939-350-2 REACH No.: 01-2119970550-39	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318  3.2/1B Skin Corr. 1B H314  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
4 - 6.5 %	tetrasodium ethylene diamine tetraacetate	Index number: 607-428-00-2 CAS: 64-02-8 EC: 200-573-9 REACH No.: 01-2119486762-27	 3.1/4/Inhal Acute Tox. 4 H332  3.9/2 STOT RE 2 H373  3.3/1 Eye Dam. 1 H318  3.1/4/Oral Acute Tox. 4 H302
0.2 - 0.4 %	4-TERT-BUTYLCYCLOHEXYL ACETATE	CAS: 32210-23-4 EC: 250-954-9	 3.4.2/1 Skin Sens. 1 H317
0.05 - 0.14 %	sodium hydroxide; caustic soda	Index number: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH No.: 01-2119457892-27	 2.16/1 Met. Corr. 1 H290  3.2/1A Skin Corr. 1A H314  3.3/1 Eye Dam. 1 H318
0.05 - 0.12 %	ethanol; ethyl alcohol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-2119457610-43	 2.6/2 Flam. Liq. 2 H225

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of eyes contact:

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 data available for the mixture. See section 11 for symptoms and effects of the substances.

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:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Carbon dioxide (CO₂).

Powder.

Foam.

Extinguishing media which must not be used for safety reasons:

Water jets.

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.

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

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.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from open flames, sparks, hot surfaces. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

See paragraph 10 below.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

TLV STEL - C 1,22 ppm - C 2 mg/m³

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

TLV TWA - 1000 ppm, A4 - 1884,25 mg/m³, A4

TLV STEL - A4

DNEL Exposure Limit Values

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-
 ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Worker Industry: 5.7 mg/kg - Worker Professional: 5.7 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 3.96 mg/m³ - Worker Professional: 3.96 mg/m³ - Consumer: 1.64 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

Consumer: 3.4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

Worker Industry: 2.5 mg/m³ - Consumer: 1.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 2.5 mg/m³ - Consumer: 1.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

Worker Industry: 1 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Worker Industry: 1900 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 950 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Target: Fresh Water - Value: 0.0009 mg/l

Target: Marine water - Value: 0.00096 mg/l

Target: Periodic release - Value: 0.00016 mg/l

Target: Freshwater sediments - Value: 12.27 mg/kg

Target: Marine water sediments - Value: 13.09 mg/kg

Target: Microorganisms in sewage treatments - Value: 0.4 mg/l

Target: Soil - Value: 7 mg/kg

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

Target: Fresh Water - Value: 2.2 mg/l

Target: Marine water - Value: 0.22 mg/l

Target: Intermittent releases - Value: 1.2 mg/l

Target: Soil (agricultural) - Value: 0.72 mg/kg

Target: Microorganisms in sewage treatments - Value: 43 mg/l

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water - Value: 0.79 mg/l

Target: STP - Value: 580 mg/l

Target: Freshwater sediments - Value: 3.6 mg/kg

Target: Marine water sediments - Value: 2.9 mg/kg

Target: 09 - Value: 720 g/kg

8.2. Exposure controls

General health and safety measures

Handle according to good industrial hygiene and safety practice, avoid contact with eyes and skin. Since the concentrated product is diluted in a closed system/process, in which the

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

operator does not come into direct contact with the concentrated product, the use of special personal protective equipment is not required.

We always recommend the operator uses good industrial hygiene practices. Train the personnel.

Safety measures recommended for handling the undiluted product:

HAND PROTECTION Not required under normal conditions of use

EYE PROTECTION Not required under normal conditions of use

SKIN PROTECTION Not required under normal conditions of use

RESPIRATORY PROTECTION: Not required under normal conditions of use

Further to accidental bullet breakage, handle according to adequate good industrial hygiene and safety practice.

Safety measures recommended for handling the diluted product:

HAND PROTECTION In case of contact with the product, rinse hands after use. In the event of prolonged and/or repetitive use or individual sensitivity to the product, it may be appropriate to protect the hands

EYE PROTECTION Not required under normal conditions of use

SKIN PROTECTION Not required under normal conditions of use

RESPIRATORY PROTECTION Not required under normal conditions of use

Environmental exposure controls:

For information on environmental exposure controls, refer to the exposure scenarios (see Section 16 of this document).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	Pink liquid	--	--
Odour:	characteristic	--	--
Odour threshold:	Not Relevant	--	--
pH:	11	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	Not flammable	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not Relevant	--	--
Relative density:	1.049 g/mL	--	--
Solubility in water:	Not applicable	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

Auto-ignition temperature:	Not applicable	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	not explosive	--	--
Oxidizing properties:	non-oxidizing	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

In normal condition of use and storage (see section 7) dangerous reactions are not expected.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

In normal condition of use and storage dangerous reactions are not expected . Avoid contact with incompatible substances.

10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents, strong acids, strong bases.
Reducing agents.

10.6. Hazardous decomposition products

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO₂, carbon mono-oxide and other irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

- e) germ cell mutagenicity
 Not classified
 Based on available data, the classification criteria are not met
- f) carcinogenicity
 Not classified
 Based on available data, the classification criteria are not met
- g) reproductive toxicity
 Not classified
 Based on available data, the classification criteria are not met
- h) STOT-single exposure
 Not classified
 Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
 Not classified
 Based on available data, the classification criteria are not met
- j) aspiration hazard
 Not classified
 Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

- a) acute toxicity:
 Test: Respiratory Tract Irritant - Route: Inhalation Positive
 Test: 06 Positive

- b) skin corrosion/irritation:
 Test: Skin Corrosive Positive

- c) serious eye damage/irritation:
 Test: Eye Corrosive Positive
 3-METHOXY-3-METHYLBUTAN-1-OL - CAS: 56539-66-3

- a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat = 4300 mg/kg
 Test: LD50 - Route: Oral - Species: Mouse = 5830 mg/kg
 Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

- b) skin corrosion/irritation:
 Test: Skin Irritant - Species: Rabbit Positive

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

- a) acute toxicity:
 Test: LD50 - Route: Oral - Species: Rat = 397.5 mg/kg
 Test: LD50 - Route: Skin - Species: Rabbit = 3412 mg/kg

- b) skin corrosion/irritation:
 Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive

- c) serious eye damage/irritation:
 Test: Eye Corrosive Positive

- d) respiratory or skin sensitisation:

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

- Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative
- e) germ cell mutagenicity:
- Test: In vitro chromosome aberration test Negative
- Test: In vitro mammalian cell test Negative
- Test: Bacterial Reverse Mutation Test Negative
- Toxicological kinetics, metabolism and distribution information:
- Test: NOAEL - Species: Rabbit = 30 mg/kg
- TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8
- a) acute toxicity:
- Test: LD50 - Route: Oral - Species: Rat = 1780 mg/kg
- Test: LC50 - Route: Inhalation = 1 mg/l/4h - Notes: Test BASF
- b) skin corrosion/irritation:
- Test: Skin Irritant - Species: Rabbit Negative - Notes: Test BASF (sol. 40%)
- c) serious eye damage/irritation:
- Test: Eye Irritant - Species: Rabbit Positive
- d) respiratory or skin sensitisation:
- Test: Skin Sensitization Negative
- e) germ cell mutagenicity:
- Test: Mutagenesis Negative
- f) carcinogenicity:
- Test: Carcinogenicity Negative
- g) reproductive toxicity:
- Test: Reproductive Toxicity Negative
- h) STOT-single exposure:
- Test: Acute toxicity Negative
- i) STOT-repeated exposure:
- Test: Chronic toxicity - Route: Inhalation Positive
- SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2
- a) acute toxicity:
- Test: Respiratory Tract Corrosive Positive - Notes: Burning sensation, sore throat, cough, breathing difficulty, shortness of breath, pulmonary oedema. Symptoms may be delayed.
- Test: Corrosive injury to gastrointestinal tract Positive - Notes: Burning sensation, abdominal pain, shock or collapse.
- b) skin corrosion/irritation:
- Test: Skin Corrosive - Species: Rabbit Positive - Notes: Equivalent or similar method to OECD TG 404
- c) serious eye damage/irritation:
- Test: Eye Corrosive - Species: Rabbit Positive - Notes: OECD TG 405 Method (2% solution)
- d) respiratory or skin sensitisation:
- Test: Skin Sensitization - Species: Man Negative - Notes: OECD SID Method
- e) germ cell mutagenicity:
- Test: Mutagenesis Negative - Source: Environmental and Molecular Mutagenesis e NIOSH/00217350
- f) carcinogenicity:

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: Genotoxicity Negative

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1501 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 5.9 mg/l - Duration: 6h

SECTION 12: Ecological information

12.1. Toxicity

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

The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

a) Aquatic acute toxicity:

Endpoint: EC20 - Species: Daphnia magna > 10 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae > 10 mg/l - Duration h: 72

3-METHOXY-3-METHYLBUTAN-1-OL - CAS: 56539-66-3

b) Aquatic chronic toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae > 1000 mg/l - Duration h: 72

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.515 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.016 mg/l - Duration h: 48

Endpoint: ErC50 - Species: Algae = 0.03 mg/l - Duration h: 96

Endpoint: EC50 - Species: MICRORG = 7.75 mg/l - Duration h: 3

Endpoint: LC50 - Species: Daphnia = 0.32 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 1.28 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.025 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish = 0.0322 mg/l - Duration h: 672

Endpoint: EC10 - Species: Algae = 0.009 mg/l - Duration h: 72

Endpoint: EC10 - Species: Algae = 0.096 mg/l - Duration h: 72

Endpoint: EC10 - Species: MICRORG = 4 mg/l - Duration h: 0.5

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

Endpoint: LC50 - Species: Fish = 189 mg/l - Duration h: 48

12.2. Persistence and degradability

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

Biodegradability: Readily biodegradable

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Biodegradability: Readily biodegradable - Test: CO2 production - Duration h: 28 days - %: 95.5

Biodegradability: Readily biodegradable - Test: OECD TG 301 D - Duration h: 28 days - %: 63

Biodegradability: Readily biodegradable - Test: OECD TG 301 D - Duration h: 70d - %: 64

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - CAS: 64-02-8

Biodegradability: Not readily biodegradable

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

It quickly oxidises in air by photochemical reaction.

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

POLY(OXY-1,2-ETHANEDIYL), ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY- - CAS: 160875-66-1

Not bioaccumulative - Test: Not applicable Not applicable - Duration h: Not applicable - Notes: Not applicable

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, CHLORIDES - CAS: 85409-22-9

Low bioaccumulative - Test: Log Pow 2.75

Not applicable Test: BCF - Bioconcentration factor =67,62 - 160

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Not bioaccumulative - Test: BCF - Bioconcentration factor 1 - Notes: Read-across

12.4. Mobility in soil

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

The product is poorly absorbed into the soil or sediments. Complete solubility in water, vaporization in the atmosphere.

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: 1760
IATA-UN Number: 1760
IMDG-UN Number: 1760

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides, sodium hydroxide)
IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides, sodium hydroxide)
IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides, sodium hydroxide)

14.3. Transport hazard class(es)

ADR-Class: 8
ADR - Hazard identification number: 80
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: II
IATA-Packing group: II
IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
Most important toxic component: Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides

14.6. Special precautions for user

ADR-Subsidiary risks: -
ADR-S.P.: 274
ADR-Transport category (Tunnel restriction code): 2 (E)
IATA-Passenger Aircraft: 851
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 855
IATA-S.P.: A3 A803
IATA-ERG: 8L
IMDG-EmS: F-A , S-B
IMDG-Subsidiary risks: -

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

IMDG-Stowage and handling: Category B SW2

IMDG-Segregation: -

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

Not applicable

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)

Regulation (EU) n. 2015/1221 (ATP 7 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

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

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

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: E1, E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN NUMBERED)-
 ALKYL DIMETHYL, CHLORIDES

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H332 Harmful if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H317 May cause an allergic skin reaction.
 H290 May be corrosive to metals.
 H225 Highly flammable liquid and vapour.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		SAFETY DATA SHEET PK 442 B LEMON BATHROOM (BULLET)
--	---	---

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

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.

Exposure scenarios must be obtained from the following addresses:

mrimessi@coind.it / rdsanificazione@coind.it.

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.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.