

Safety Data Sheet



LCB057 CATALIZZATORE non ingiallente- non-yellowing catalyst

Safety Data Sheet dated 9/15/2022, version 2

1. Identification

GHS Product identifier
 Mixture identification:
 Trade name: CATALIZZATORE non ingiallente- non-yellowing catalyst
 Other means of identification
 Trade code: LCB057
 Recommended use and restrictions on use
 Recommended use:
 IS- Industrial use
 PW - Professional use
 Catalyst for paints and varnishes
 Supplier's details
 Company:
 NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20008 BAREGGIO (MI) - Tel. +39 02-903041
 Importer:
 Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.
 7900 Henri-Bourassa Blvd. W.
 Montreal, Quebec, Canada, H4S 1V4
 Tel :+1-800-361-6000
 Emergency phone number for Canada: Canutec (613) 996-6666
 Distributor:
 Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.
 7900 Henri-Bourassa Blvd. W.
 Montreal, Quebec, Canada, H4S 1V4
 Tel :+1-800-361-6000
 Emergency phone number for Canada: Canutec (613) 996-6666
 Competent person responsible for the safety data sheet:
 msds@sivam.it
 Emergency phone number
 NUOVA S.I.V.A.M. SpA - Tel. +39 02- 903041 (Monday - Friday 8.00 - 15.00)
 Poison Centre - Ospedale di Niguarda Ca' Granda - Milan - Tel. +39 02-66101029 (24 h)

2. Hazard identification

Classification of the hazardous product
 ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
 ⚠ Warning, Acute Tox. 4, Harmful if inhaled.
 ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
 ⚠ Warning, STOT SE 3, May cause respiratory irritation.
 ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
 ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

GHS label elements, including precautionary statements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.
 H332 Harmful if inhaled.
 H317 May cause an allergic skin reaction.

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H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P302+P352 IF ON SKIN: Wash with plenty of water/...

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/ doctor/if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see ... On this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use ... to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

Special provisions

None

Other hazards

None

Ingredient(s) with unknown acute toxicity

None.

3. Composition/Information on ingredients

Substances

N.A.

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

Qty	Name	Ident. Number	Classification
>= 30%- < 60%	Hexamethylene diisocyanate, oligomers (biuret type)	CAS: 28182-81-2 EC: 939-340-8 REACH No.: 01-2119970543-34	⚠ A.1/4/Inhal Acute Tox. 4 H332 ⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ A.8/3 STOT SE 3 H335
>= 15% - < 40%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-2119485493-29	⚠ B.6/3 Flam. Liq. 3 H226 ⚠ A.8/3 STOT SE 3 H336

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>=5% - < 10%	2-methoxy-1-methylethyl acetate	Index number: CAS: EC: REACH No.:	607-195-00-7 108-65-6 203-603-9 01-2119475791-29	 B.6/3 Flam. Liq. 3 H226  A.8/3 STOT SE 3 H336
>= 3% - < 7%	xylene [4]	Index number: CAS: EC: REACH No.:	601-022-00-9 1330-20-7 215-535-7 01-2119488216-32	 B.6/3 Flam. Liq. 3 H226 CAN-HAE/C3 Aquatic Chronic 3 H412  A.1/4/Dermal Acute Tox. 4 H312  A.1/4/Inhal Acute Tox. 4 H332  A.2/2 Skin Irrit. 2 H315  A.8/3 STOT SE 3 H335  A.9/2 STOT RE 2 H373  A.10/1 Asp. Tox. 1 H304
>= 1% - < 5%	ethylbenzene	Index number: CAS: EC: REACH No.:	601-023-00-4 100-41-4 202-849-4 01-2119489370-35	 B.6/2 Flam. Liq. 2 H225  A.1/4/Inhal Acute Tox. 4 H332  A.9/2 STOT RE 2 H373  A.10/1 Asp. Tox. 1 H304 CAN-HAE/C3 Aquatic Chronic 3 H412
>= 0.1% - < 1%	hexamethylene-diisocyanate	Index number: CAS: EC: REACH No.:	615-011-00-1 822-06-0 212-485-8 01-2119457571-37	 A.1/1/Inhal Acute Tox. 1 H330  A.1/4/Oral Acute Tox. 4 H302  A.8/3 STOT SE 3 H335  A.2/2 Skin Irrit. 2 H315  A.4.1/1 Resp. Sens. 1 H334 Specific Concentration Limits: C >= 0,5%: Resp. Sens. 1 H334 C >= 0,5%: Skin Sens. 1 H317

The actual concentration of the components listed above is withheld as a trade secret.

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed, if necessary

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

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Treatment:
None

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

In case of fire: Use ... to extinguish.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.D. in volume

Oxidizing properties: N.D.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Wash with plenty of water.

7. Handling and storage

Precautions for safe handling

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

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

Storage temperature:

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Store at ambient temperature.

8. Exposure controls/personal protection

Control parameters

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

EU - STEL: 1 mg/m³

n-butyl acetate - CAS: 123-86-4

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin

TLV TWA - 275 mg/m³ - 50 ppm

TLV STEL - 550 mg/m³ - 100 ppm

xylene [4] - CAS: 1330-20-7

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

ethylbenzene - CAS: 100-41-4

EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

hexamethylene-di-isocyanate - CAS: 822-06-0

ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr, resp sens

DNEL Exposure Limit Values

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

Worker Industry: 0.5 mg/m³ - Worker Professional: 0.5 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, local effects

Worker Industry: 1 mg/m³ - Worker Professional: 1 mg/m³ - Exposure: Human Inhalation

- Frequency: Short Term, local effects

n-butyl acetate - CAS: 123-86-4

Worker Industry: 300 mg/m³ - Worker Professional: 300 mg/m³ - Consumer: 35.7 mg/m³

- Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 300 mg/m³ - Worker Professional: 300 mg/m³ - Consumer: 35.7 mg/m³

- Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 11 mg/kg - Worker Professional: 11 mg/kg - Consumer: 6 mg/kg -

Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 796 mg/kg - Worker Professional: 796 mg/kg - Consumer: 320 mg/kg -

Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 275 mg/m³ - Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ -

Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 550 mg/m³ - Worker Professional: 550 mg/m³ - Exposure: Human

Inhalation - Frequency: Short Term, local effects

Consumer: 36 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene [4] - CAS: 1330-20-7

Worker Industry: 289 mg/m³ - Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³

- Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 77 mg/m³ - Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ -

Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Consumer: 108 mg/kg -

Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4

Worker Industry: 180 mg/kg - Worker Professional: 180 mg/kg - Exposure: Human

Dermal - Frequency: Long Term, systemic effects

Worker Industry: 77 mg/m³ - Worker Professional: 77 mg/m³ - Consumer: 15 mg/m³ -

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Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

hexamethylene-di-isocyanate - CAS: 822-06-0

Worker Industry: 0.07 mg/m³ - Worker Professional: 0.07 mg/m³ - Exposure: Human

Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 0.07 mg/m³ - Worker Professional: 0.07 mg/m³ - Exposure: Human

Inhalation - Frequency: Short Term, local effects

Worker Industry: 0.035 mg/m³ - Worker Professional: 0.035 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.035 mg/m³ - Worker Professional: 0.035 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

Target: Fresh Water - Value: 0.127 mg/l

Target: Marine water - Value: 0.0127 mg/l

Target: Intermittent emission - Value: 1.27 mg/l

Target: Microorganisms in sewage treatments - Value: 38.3 mg/l

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 0.18 mg/l

Target: Marine water - Value: 0.018 mg/l

Target: Intermittent emission - Value: 0.36 mg/l

Target: Freshwater sediments - Value: 0.98 mg/kg

Target: Marine water sediments - Value: 0.098 mg/kg

Target: Microorganisms in sewage treatments - Value: 35.6 mg/l

Target: Soil (agricultural) - Value: 0.09 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/l

Target: Marine water - Value: 0.0635 mg/l

Target: Intermittent emission - Value: 6.35 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Freshwater sediments - Value: 3.29 mg/kg

Target: Marine water sediments - Value: 0.329 mg/kg

Target: Soil (agricultural) - Value: 0.29 mg/kg

xylene [4] - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water - Value: 0.327 mg/l

Target: Intermittent emission - Value: 0.327 mg/l

Target: Freshwater sediments - Value: 12.46 mg/kg

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Microorganisms in sewage treatments - Value: 6.58 mg/l

Target: Soil (agricultural) - Value: 2.31 mg/kg

ethylbenzene - CAS: 100-41-4

Target: Fresh Water - Value: 0.1 mg/l

Target: Marine water - Value: 0.01 mg/l

Target: Freshwater sediments - Value: 13.7 mg/kg

Target: Marine water sediments - Value: 1.37 mg/kg

Target: Intermittent emission - Value: 0.1 mg/l

Target: Microorganisms in sewage treatments - Value: 9.6 mg/l

Target: Soil (agricultural) - Value: 2.68 mg/kg

hexamethylene-di-isocyanate - CAS: 822-06-0

Target: Fresh Water - Value: 0.0774 mg/l

Target: Marine water - Value: 0.00774 mg/l

Target: Freshwater sediments - Value: 0.01334 mg/kg

Target: Marine water sediments - Value: 0.001334 mg/kg

Target: Intermittent emission - Value: 0.774 mg/l

Target: Microorganisms in sewage treatments - Value: 8.42 mg/l

Target: Soil (agricultural) - Value: 0.0026 mg/kg

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xylene [4] - CAS: 1330-20-7

Value: 1.5 g/g - medium: Urine - Biological Indicator: Methyl hippuric acid in urine -

Sampling Period: End of turn

ethylbenzene - CAS: 100-41-4

Value: 0.15 g/g - medium: Urine - Biological Indicator: Sum of mandelic acid in urine and

acid fenilgliossalico - Sampling Period: End of turn; End of working week

Appropriate engineering controls

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Eye glasses with side protection. (EN166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN374)

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

Thermal Hazards:

None

9. Physical and chemical properties

Appearance and colour: Liquid, Colourless

Odour: typical

Odour threshold: N.D.

pH: Not Relevant

Melting point / freezing point: N.D. °C

Initial boiling point and boiling range: > 126 °C

Flash point: > 23 °C

Evaporation rate: N.D.

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: 7.5% - 1.6% Vol. (n-butyl acetate)

Vapour pressure: N.D. (20 °C)

Vapour density: > 1

Relative density: 0.980 - 1.000

Solubility in water: partial, reacts

Solubility in oil: partial

Partition coefficient (n-octanol/water): N.D.

Auto-ignition temperature: > 300 °C

Decomposition temperature: N.D. °C

Viscosity: N.D.

10. Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents.

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

Conditions to avoid

Avoid accumulating electrostatic charge.

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Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. Toxicological information

Information on toxicological effects

Toxicological information of the product:

CATALIZZATORE non ingiallente- non-yellowing catalyst

a) acute toxicity

The product is classified: Acute Tox. 4 H332

ATEmix - Inhalation (Mist) 3,13545 mg/l

b) skin corrosion/irritation

Not classified

No data available for the product

c) serious eye damage/irritation

Not classified

No data available for the product

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

e) germ cell mutagenicity

Not classified

No data available for the product

f) carcinogenicity

Not classified

No data available for the product

g) reproductive toxicity

Not classified

No data available for the product

h) STOT-single exposure

The product is classified: STOT SE 3 H335; STOT SE 3 H336

i) STOT-repeated exposure

The product is classified: STOT RE 2 H373

j) aspiration hazard

Not classified

No data available for the product

Toxicological information of the main substances found in the product:

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat = 1.5 mg/l - Duration: 4h - Source: OCSE 403

Test: LC50 - Route: Inhalation Dust - Species: Rat = 1.5 mg/l - Duration: 4h - Source: OCSE 403

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10760 mg/kg - Source: OECD 423

Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h - Source: OECD 403

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg - Source: OECD 402

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 23.5 mg/l - Duration: 4h

xylene [4] - CAS: 1330-20-7

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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 6.7 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit = 1100 mg/kg

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg

Test: LD50 - Route: Inhalation - Species: Rat = 17.2 mg/l - Duration: 1h

i) STOT-repeated exposure:

Test: NOAEC - Route: Inhalation - Species: Rat = 0.5 mg/l - Notes: Ototoxicity

hexamethylene-di-isocyanate - CAS: 822-06-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 746 mg/kg

Test: LC50 - Route: Skin - Species: Rabbit = 570 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat = 0.124 mg/l - Duration: 4h - Source: OCSE 403

n-butyl acetate - CAS: 123-86-4

The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.

Symptoms of illness at 500 ppm. Serious toxic effects at 2.000 ppm for 60 min.

xylene [4] - CAS: 1330-20-7

Observations on human subjects.

Effects following acute exposure: dermatitis, eczema, irritation to the eyes and to the respiratory tract, dizziness, headache, nausea, incoordination, excitability, narcosis, anaemia, and paraesthesia of the hands and feet.

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

xylene [4] - Group 3

ethylbenzene - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. Ecological information

Ecotoxicity

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

CATALIZZATORE non ingiallente- non-yellowing catalyst

Not classified for environmental hazards

No data available for the product

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 200 mg/l - Duration h: 72

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 96 - Notes: OECD 201

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: LC50 - Species: Daphnia = 408 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Notes: 14d OECD 204

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Endpoint: NOEC - Species: Daphnia > 100 mg/l - Notes: 21d OECD 211

xylene [4] - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 72 - Notes: OECD TG 201

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24 - Notes: OECD TG 202

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1.3 mg/l - Notes: 56d

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Notes: 21d

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1.8 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 3.6 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.96 mg/l - Notes: 7 day

Endpoint: NOEC - Species: Algae = 3.4 mg/l - Duration h: 96

hexamethylene-di-isocyanate - CAS: 822-06-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 22 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 89.1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 77.4 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 11.7 mg/l - Duration h: 72

Persistence and degradability

Hexamethylene diisocyanate, oligomers (biuret type) - CAS: 28182-81-2

Biodegradability: Non-readily biodegradable

n-butyl acetate - CAS: 123-86-4

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 83

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 83 - Notes: OECD 301F

xylene [4] - CAS: 1330-20-7

Biodegradability: Readily biodegradable

ethylbenzene - CAS: 100-41-4

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 70-80

hexamethylene-di-isocyanate - CAS: 822-06-0

Biodegradability: Non-readily biodegradable - Test: Biochemical oxygen demand - Duration h: 28 days - %: 42

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

13. Disposal considerations

Safe handling and methods for disposal

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.

14. Transport information



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UN number	
TDG number:	UN1263
ADR-UN Number:	1263
DOT number:	UN1263
IATA-UN Number:	1263
IMDG-UN Number:	1263
UN proper shipping name	
TDG-Shipping Name:	PAINT
ADR-Shipping Name:	PAINT
DOT-Shipping Name:	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base or Paint related material including paint thinning, drying, removing, or reducing compound
IATA-Shipping Name:	PAINT
IMDG-Shipping Name:	PAINT
Transport hazard class(es)	
TDG Class:	3
ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
Packing group	
TDG Packing group:	III
ADR-Packing Group:	III
DOT Packing group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
N.A.	
Special precautions in connection with transport or conveyance	
Rail (RID):	3
TDG Special provisions:	59, 142
DOT Special provisions:	367, B1, B52, B131, IB3, T2, TP1, TP29
ADR-Subsidiary hazards:	-
ADR-S.P.:	163 367 650
ADR-Transport category (Tunnel restriction code):	3 (D/E)
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) - WHMIS 2015.

NPRI - National Pollutant Release Inventory

Substance(s) listed under NPRI:

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n-butyl acetate is listed in NPRI Part 5

2-methoxy-1-methylethyl acetate is listed in NPRI Part 5

xylene [4] is listed in NPRI Part 5

ethylbenzene is listed in NPRI Part 1, Group A.

DSL inventory - Domestic substances list

All the components are listed in the DSL..

NDSL inventory - Not Domestic substances list

no substances listed

TSCA inventory

All the components are listed on the TSCA inventory.

TSCA listed substances:

Hexamethylene diisocyanate, oligomers (biuret type) is listed in TSCA Section 8b

n-butyl acetate is listed in TSCA Section 8b

2-methoxy-1-methylethyl acetate is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

xylene [4] is listed in TSCA Section 8b

ethylbenzene is listed in TSCA Section 8b, Section 8d HSDR

hexamethylene-di-isocyanate is listed in TSCA Section 8b, Section 8d HSDR.

USA - Federal regulations

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: n-butyl acetate, xylene [4], ethylbenzene, hexamethylene-di-isocyanate.

Section 313 – Toxic chemical list: xylene [4], ethylbenzene, hexamethylene-di-isocyanate.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds

xylene [4] - Reportable quantity: 100 pounds

ethylbenzene - Reportable quantity: 1000 pounds

hexamethylene-di-isocyanate - Reportable quantity: 100 pounds.

Reportable quantity for mixture: 1562.5 pounds.

CAA - Clean Air Act

CAA listed substances:

n-butyl acetate is listed in CAA Section 111

xylene [4] is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

ethylbenzene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

hexamethylene-di-isocyanate is listed in CAA Section 112(b) - HAP.

CWA - Clean Water Act

CWA listed substances:

n-butyl acetate is listed in CWA Section 304, Section 311

xylene [4] is listed in CWA Section 304, Section 311

ethylbenzene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

ethylbenzene - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

n-butyl acetate

xylene [4]

ethylbenzene

hexamethylene-di-isocyanate.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

n-butyl acetate

xylene [4]

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ethylbenzene
hexamethylene-di-isocyanate.
Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
n-butyl acetate
xylene [4]
ethylbenzene.

Volatile Organic compounds - VOCs = 52.00 %
Volatile Organic compounds - VOCs = 520.00 g/l
Volatile CMR substances = 0.02 %
Organic Carbon - C = 0.34

16. Other information

Full text of phrases referred to in Section 3:

H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H225 Highly flammable liquid and vapour.
H330 Fatal if inhaled.
H302 Harmful if swallowed.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Safety Data Sheet dated 9/15/2022, version 2
Sections modified from the previous revision:

3. Composition/Information on ingredients
8. Exposure controls/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
14. Transport information

Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
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.
GHS: Globally Harmonized System of Classification and Labeling of

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	Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
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