

Safety Data Sheet



LCB195 CATALIZZATORE non ingiallente- non-yellowing catalyst

Safety Data Sheet dated 1/25/2023, version 2

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CATALIZZATORE non ingiallente- non-yellowing catalyst

Other means of identification:

Trade code: LCB195

Recommended use of the chemical and restrictions on use

Recommended use:

IS- Industrial use

PW - Professional use

Catalyst for paints and varnishes

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20008 BAREGGIO (MI) - Tel. +39 02-903041

Importer:

Richelieu America Ltd, 7021 Sterling Ponds Blvd, Sterling Heights, MI 48312-5809 U.S. Tel: +1-800-361-6000.

Emergency phone number for U.S.A.: Chemtrec +1-800-424-9300

Distributor:

Richelieu America Ltd, 7021 Sterling Ponds Blvd, Sterling Heights, MI 48312-5809 U.S. Tel: +1-800-361-6000.

Emergency phone number for U.S.A.: Chemtrec +1-800-424-9300

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(S) IDENTIFICATION

Classification of the chemical

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.
- ⚠ Danger, Resp. Sens. 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ⚠ Warning, Carc. 2, Suspected of causing cancer.
- ⚠ Warning, Repr. 2, Suspected of damaging fertility or the unborn child.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

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H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... Thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
P304+P341 IF INHALED: If breathing is difficult, 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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
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).
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.
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

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:

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HMIS rating:

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		1
PERSONAL PROTECTION		G

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 25%	ethyl acetate	Index number: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 REACH No.: 01-2119475103-46	⚠ A.3/2A Eye Irrit. 2A H319 ⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.8/3 STOT SE 3 H336
>= 20% - < 25%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51	⚠ B.6/2 Flam. Liq. 2 H225 ⚠ A.7/2 Repr. 2 H361 ⚠ A.10/1 Asp. Tox. 1 H304 ⚠ A.9/2 STOT RE 2 H373 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.8/3 STOT SE 3 H336
>= 15% - < 20%	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
>= 15% - < 20%	Aromatic polyisocyanate CAS 9017-01-0	CAS: 9017-01-0 EC: 618-500-8	⚠ A.3/2A Eye Irrit. 2A H319 ⚠ A.4.2/1 Skin Sens. 1 H317

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>= 10% - < 12.5%	butanone; ethyl methyl ketone	Index number: CAS: EC: REACH No.:	606-002-00-3 78-93-3 201-159-0 01-2119457290-43	 B.6/2 Flam. Liq. 2 H225  A.3/2A Eye Irrit. 2A H319  A.8/3 STOT SE 3 H336
>= 7% - < 10%	HDI oligomers, isocyanurate	CAS: EC: REACH No.:	28182-81-2 931-274-8 01-2119485796-17	 A.1/4/Inhal Acute Tox. 4 H332  A.4.2/1 Skin Sens. 1 H317  A.8/3 STOT SE 3 H335
>= 0.1% - < 0.25%	2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;	Index number: CAS: EC: REACH No.:	615-006-00-4 26471-62-5 247-722-4 01-2119454791-34	 A.6/2 Carc. 2 H351  A.3/2A Eye Irrit. 2A H319  A.8/3 STOT SE 3 H335  A.2/2 Skin Irrit. 2 H315  A.4.1/1 Resp. Sens. 1 H334  A.4.2/1 Skin Sens. 1 H317 US-HAE/C3 Aquatic Chronic 3 H412  A.1/1/Inhal Acute Tox. 1 H330 Specific Concentration Limits: C >= 0,1%: Resp. Sens. 1 H334

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

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:

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.

Most important symptoms/effects, acute and delayed

None

Indication of 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:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire, use alcohol resistant foam, dry chemical, CO₂, water spray. Do not use water jet.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

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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.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials 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.

Exercise the greatest care when handling or opening the container.

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

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:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

ethyl acetate - CAS: 141-78-6

ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

EU - TWA(8h): 734 mg/m³, 200 ppm - STEL: 1468 mg/m³, 400 ppm

toluene - CAS: 108-88-3

EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss

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

butanone; ethyl methyl ketone - CAS: 78-93-3

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EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

HDI oligomers, isocyanurate - CAS: 28182-81-2

EU - STEL: 1 mg/m³

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - CAS: 26471-62-5

ACGIH - TWA: 0.036 mg/m³, 0.005 ppm - STEL: 0.14 mg/m³, 0.02 ppm

DNEL Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Worker Industry: 1468 mg/m³ - Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 1468 mg/m³ - Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 63 mg/kg - Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 734 mg/m³ - Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 734 mg/m³ - Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3

Worker Industry: 384 mg/kg - Worker Professional: 384 mg/kg - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 192 mg/m³ - Worker Professional: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic 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

Aromatic polyisocyanate CAS 9017-01-0 - CAS: 9017-01-0

Worker Industry: 0.345 mg/m³ - Worker Professional: 0.345 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

butanone; ethyl methyl ketone - CAS: 78-93-3

Worker Industry: 1161 mg/kg - Worker Professional: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m³ - Worker Professional: 600 mg/m³ - Consumer: 106 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

HDI oligomers, isocyanurate - 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

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - CAS: 26471-62-5

Worker Industry: 0.14 mg/m³ - Worker Professional: 0.14 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 0.14 mg/m³ - Worker Professional: 0.14 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

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PNEC Exposure Limit Values

ethyl acetate - CAS: 141-78-6

- Target: Fresh Water - Value: 0.24 mg/l
- Target: Marine water - Value: 0.024 mg/l
- Target: Intermittent emission - Value: 1.65 mg/l
- Target: Microorganisms in sewage treatments - Value: 650 mg/l
- Target: Freshwater sediments - Value: 1.15 mg/kg
- Target: Marine water sediments - Value: 0.115 mg/kg
- Target: Soil (agricultural) - Value: 0.148 mg/kg
- Target: Food chain - Value: 200 mg/kg

toluene - CAS: 108-88-3

- Target: Fresh Water - Value: 0.074 mg/l
- Target: Marine water - Value: 0.0074 mg/l
- Target: Freshwater sediments - Value: 1.78 mg/kg
- Target: Marine water sediments - Value: 0.178 mg/kg
- Target: Microorganisms in sewage treatments - Value: 0.84 mg/l
- Target: Soil (agricultural) - Value: 0.313 mg/kg

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

Aromatic polyisocyanate CAS 9017-01-0 - CAS: 9017-01-0

- Target: Fresh Water - Value: 0.1 mg/l
- Target: Marine water - Value: 0.01 mg/l
- Target: Freshwater sediments - Value: 3302 mg/kg
- Target: Marine water sediments - Value: 330 mg/kg
- Target: Intermittent emission - Value: 0.1 mg/l
- Target: Microorganisms in sewage treatments - Value: 0.1 mg/l
- Target: Soil (agricultural) - Value: 658 mg/kg

butanone; ethyl methyl ketone - CAS: 78-93-3

- Target: Fresh Water - Value: 55.8 mg/l
- Target: Marine water - Value: 55.8 mg/l
- Target: Freshwater sediments - Value: 284.7 mg/kg
- Target: Marine water sediments - Value: 284.7 mg/kg
- Target: Microorganisms in sewage treatments - Value: 709 mg/l
- Target: Soil (agricultural) - Value: 22.5 mg/kg
- Target: Food chain - Value: 1000 mg/kg

HDI oligomers, isocyanurate - 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

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - CAS: 26471-62-5

- Target: Fresh Water - Value: 0.0125 mg/l
- Target: Marine water - Value: 0.00125 mg/l
- Target: Intermittent emission - Value: 0.125 mg/l
- Target: Microorganisms in sewage treatments - Value: 1 mg/l
- Target: Soil (agricultural) - Value: 1 mg/kg

Biological Exposure Index

toluene - CAS: 108-88-3

- Value: 0.02 mg/L - medium: Blood - Biological Indicator: Toluene in blood - Sampling Period: End of turn; End of working week

Appropriate engineering controls:

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None

Individual protection measures

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 adequate protective respiratory equipment.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Liquid, Transparent
Odour:	typical
Odour threshold:	N.D.
pH:	Not Relevant
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	> 77 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	11.5% - 2.1% Vol. (Ethyl acetate)
Vapour density:	> 1
Flash point:	< 0 °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	0.940 - 0.960
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.
Miscibility:	N.D.
Fat Solubility:	N.D.
Conductivity:	N.D.
Substance Groups relevant properties	N.A.

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.

Incompatible materials

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

Hazardous decomposition products

None.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

CATALIZZATORE non ingiallente- non-yellowing catalyst

a) acute toxicity

Not classified

No data available for the product

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2A H319

d) respiratory or skin sensitisation

The product is classified: Resp. Sens. 1 H334; Skin Sens. 1 H317

e) germ cell mutagenicity

Not classified

No data available for the product

f) carcinogenicity

The product is classified: Carc. 2 H351

g) reproductive toxicity

The product is classified: Repr. 2 H361

h) STOT-single exposure

The product is classified: STOT SE 3 H336

i) STOT-repeated exposure

The product is classified: STOT RE 2 H373

j) aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4934 mg/kg - Source: OCSE 401

Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg

toluene - CAS: 108-88-3

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 = 25.7 mg/l - Duration: 4h - Source: OECD 403

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit = 500 mg/kg - Source: OECD 404 -

Notes: 24h

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

Aromatic polyisocyanate CAS 9017-01-0 - CAS: 9017-01-0

a) acute toxicity:

Test: LC50 - Route: Inhalation Dust - Species: Rat > 1.839 mg/l - Duration: 4h

butanone; ethyl methyl ketone - CAS: 78-93-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2054 mg/kg - Source: OECD 423

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat = 23.5 mg/l - Duration: 8h

HDI oligomers, isocyanurate - CAS: 28182-81-2

a) acute toxicity:

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Test: LD50 - Route: Oral - Species: Rat > 2500 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: OECD 403

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - CAS: 26471-62-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4130 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 9400 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat = 0.47 mg/l - Duration: 1h - Source: OECD 403

Test: LC50 - Route: Inhalation - Species: Rat = 0.107 mg/l - Duration: 4h - Source: OECD 403

ethyl acetate - CAS: 141-78-6

The product is extremely volatile and provokes for inhalation, irritation to respiratory tracts. Acute exposition can cause depression of central nervous system with effects such as drowsiness, reflex loss, narcosis.

toluene - CAS: 108-88-3

Effects following acute exposure:

At 200 ppm: mild but definite decrease in co-ordination and in reaction time, fatigue, confusion, paraesthesia of the skin; the fatigue lasted over a number of hours together with mild insomnia.

At 400 ppm: worsening of symptoms and mental confusion.

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.

butanone; ethyl methyl ketone - CAS: 78-93-3

High exposure can cause

drowsiness, migraine, narcosis and dizziness.

The extended contact and/or repeated with skin can cause dermatitis.

Environmental concentrations more than 200 ppm result irritating for eyes and respiratory tract.

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

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;.

Substance(s) listed on the IARC Monographs:

toluene - Group 3

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - 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

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Algae > 100 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 165 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 2.4 mg/l - Notes: 21d

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toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 12.5 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 10 mg/l - Duration h: 72

Endpoint: NOEC - Species: Daphnia = 0.74 mg/l - Notes: 7d

Endpoint: NOEC - Species: Fish = 1.39 mg/l - Notes: 40d

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

butanone; ethyl methyl ketone - CAS: 78-93-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2029 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - CAS: 26471-62-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 133 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia = 12.5 mg/l - Duration h: 48 - Notes: OECD 202

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1.1 mg/l - Duration h: 504 - Notes: OECD 211

Persistence and degradability

ethyl acetate - CAS: 141-78-6

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

toluene - CAS: 108-88-3

Biodegradability: Readily biodegradable

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

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

butanone; ethyl methyl ketone - CAS: 78-93-3

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 98 - Notes: OECD 301D

HDI oligomers, isocyanurate - CAS: 28182-81-2

Biodegradability: Non-readily biodegradable - Duration h: 28 days - %: 1

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - CAS: 26471-62-5

Biodegradability: Non-readily biodegradable - Test: Biochemical oxygen demand -

Duration h: 28 days - %: 0 - Notes: OECD 302C

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal 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.

14. TRANSPORT INFORMATION

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UN number
 ADR-UN Number: 1263
 DOT number: UN1263
 IATA-UN Number: 1263
 IMDG-UN Number: 1263

UN proper shipping name
 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)
 ADR-Class: 3
 DOT Hazard Class: 3
 ADR - Hazard identification number: 33
 IATA-Class: 3
 IATA-Label: 3
 IMDG-Class: 3
 IMDG-Class: 3

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

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
 Rail (RID): 3
 DOT Special provisions: 149, 367, 383, B52, B131, IB2, T4, TP1, TP8, TP28
 ADR-Subsidiary hazards: -
 ADR-S.P.: 163 367 640D 650
 ADR-Transport category (Tunnel restriction code): 2 (D/E)
 IATA-Passenger Aircraft: 353
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 364
 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

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

ethyl acetate is listed in TSCA Section 8b

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toluene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR
 n-butyl acetate is listed in TSCA Section 8b
 Aromatic polyisocyanate CAS 9017-01-0 is listed in TSCA Section 12b, Section 8b
 butanone; ethyl methyl ketone is listed in TSCA Section 8b, Section 8d HSDR
 HDI oligomers, isocyanurate is listed in TSCA Section 8b
 2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; is listed in TSCA Section 12b, Section 8b, Section 8d HSDR, Section 8a - CAIR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: ethyl acetate, toluene, n-butyl acetate, butanone; ethyl methyl ketone, 2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;.

Section 313 – Toxic chemical list: toluene, 2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

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

toluene - Reportable quantity: 1000 pounds

n-butyl acetate - Reportable quantity: 5000 pounds

butanone; ethyl methyl ketone - Reportable quantity: 5000 pounds

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - Reportable quantity: 100 pounds.

Reportable quantity for mixture: 4651.162791 pounds.

CAA - Clean Air Act

CAA listed substances:

ethyl acetate is listed in CAA Section 111 $\geq 20\%$ - $< 25\%$

toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON $\geq 20\%$ - $< 25\%$

n-butyl acetate is listed in CAA Section 111 $\geq 15\%$ - $< 20\%$

butanone; ethyl methyl ketone is listed in CAA Section 111, Section 112(b) - HON $\geq 10\%$ - $< 12.5\%$

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; is listed in CAA Section 111, Section 112(b) - HON, Section 112(r) $\geq 0.1\%$ - $< 0.25\%$.

CWA - Clean Water Act

CWA listed substances:

ethyl acetate is listed in CWA Section 304

toluene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants

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

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

toluene - Listed as reproductive toxicant

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

ethyl acetate

toluene

n-butyl acetate

butanone; ethyl methyl ketone

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;.

New Jersey Right to know

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

ethyl acetate

toluene

n-butyl acetate

butanone; ethyl methyl ketone

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

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ethyl acetate
toluene
n-butyl acetate
butanone; ethyl methyl ketone
2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;.

Volatile Organic compounds - VOCs = 75.25 %

Volatile Organic compounds - VOCs = 722.40 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.52

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H330 Fatal if inhaled.

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Sections modified from the previous revision:

2. HAZARD(S) IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
SECTION 14: Transport information
15. REGULATORY 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).

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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 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