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

1.1. Product identifier
Mixture identification:
Trade name: Catalizzatore NI
Trade code: CTN52

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Surface coating

1.3. Details of the supplier of the safety data sheet
Company:
Sirca S.p.A.
Address:
Viale Roma, 85
35010 S.Dono di Massanzago (PD) - ITALY
Tel. +39 0499322311
Competent person responsible for the safety data sheet:
safety@sirca.it

1.4. Emergency telephone number
National Poisons Information Service - Medical Toxicology Unit - London - Tel. 0171/6359191
Scottish Poisons Information Bureau - The Royal Infirmary - Edinburgh - Tel. 01/31536298
Welsh National Poisons Unit - Ward West 5 - Llandough Hospital Penarth - Cardiff - Tel. 012/22709901
Poisons Information Centre - Royal Victoria Hospital - Belfast - Tel. 012/32240503
Poisons Information centre - Beaumont Hospital - Dublin - Tel. 0103531/8379964
Sirca S.p.A. +39 049 9322311 (08.00 - 17.00) From Monday to Friday

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
- Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- 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.
EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:
No other hazards known

2.2. Label elements
Hazard pictograms:
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Hazard statements:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use CO2, Foam, Chemical powders to extinguish.

Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

Contains
ethyl acetate
Hexamethylene diisocyanate, oligomers
n-butyl acetate
xylene [isomer mixture]

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
This product contains isocyanates. Producer’s specifications are as follows: ready-to-use paints containing isocyanates may irritate mucosae, particularly those of the respiratory system, and may give rise to hypersensitivity reactions. Vapour or aerosol inhalation may lead to sensitization. Please take all the measures used for all solvent-containing paints while manipulating isocyanate-containing paints. Avoid vapour and aerosol inhalation. People with allergic or asthmatic precedents or subject to respiratory disorders should not handle paints containing isocyanates.

Other Hazards:
No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.

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

>= 25% - < 48% ethyl acetate
REACH No.: 01-2119475103-46-xxxx, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4

- 2.6/2 Flam. Liq. 2 H225
- 3.3/2 Eye Irrit. 2 H319
- 3.8/3 STOT SE 3 H336
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EUH066

>= 25% - < 48% Hexamethylene diisocyanate, oligomers
REACH No.: 01-2119485796-17-xxxx, CAS: 28182-81-2

- 3.1/4/Inhal Acute Tox. 4 H332
- 3.4.2/1 Skin Sens. 1 H317
- 3.8/3 STOT SE 3 H335

>= 9.9% - < 12.5% n-butyl acetate
REACH No.: 01-2119485493-29-xxxx, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

- 2.6/3 Flam. Liq. 3 H226
- 3.8/3 STOT SE 3 H336

EUH066

>= 5% - < 7% 2-methoxy-1-methylethyl acetate
REACH No.: 01-2119475791-29-xxxx, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

- 2.6/3 Flam. Liq. 3 H226

>= 3% - < 5% xylene [isomer mixture]
REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

- 2.6/3 Flam. Liq. 3 H226
- 3.10/1 Asp. Tox. 1 H304
- 3.3/2 Eye Irrit. 2 H319
- 3.8/3 STOT SE 3 H335
- 3.9/2 STOT RE 2 H373
- 3.2/2 Skin Irrit. 2 H315
- 3.1/4/Dermal Acute Tox. 4 H312
- 3.1/4/Inhal Acute Tox. 4 H332

>= 2.5% - < 3% toluene

- 2.6/2 Flam. Liq. 2 H225
- 3.7/2 Repr. 2 H361
- 3.10/1 Asp. Tox. 1 H304
- 3.9/2 STOT RE 2 H373
- 3.2/2 Skin Irrit. 2 H315
- 3.8/3 STOT SE 3 H336

>= 1% - < 2% ethylbenzene
REACH No.: 01-2119489370-35-xxxx, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

- 2.6/2 Flam. Liq. 2 H225
- 3.1/4/Inhal Acute Tox. 4 H332
- 3.9/2 STOT RE 2 H373
- 3.10/1 Asp. Tox. 1 H304

>= 0.1% - < 0.2% hexamethylene-di-isocyanate
SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). 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:
Induce vomiting only on doctor’s advice

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

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

Contact a poisons centre

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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
In case of fire: Use CO2, Foam, Chemical powders to extinguish. Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Combustion may liberate toxic or very toxic gases. Do not breathe fumes. 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 all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Remove persons to safety.
Use appropriate respiratory protection.
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
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

6.3. Methods and material for containment and cleaning up
Collect the spilled product with no-sparking tools.
Rapidly recover the product. To do so, wear a mask and protective clothing.
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with water.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep away from flame and sparks. Avoid accumulating electrostatic charge.
Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.
Avoid contact with skin and eyes, inhalation of vapours and mists.
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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
Do not smoke while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Store at below 30 °C. Keep away from unguarded flames and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Safety electric system.

7.3. Specific end use(s)
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**ethyl acetate** - CAS: 141-78-6
  - (OEL (IT)) - TWA: 400 ppm
  - ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

**n-butyl acetate** - CAS: 123-86-4
  - TWA (Italia) - TWA: 150 ppm - STEL: 200 ppm
  - ACGIH - TWA: 150 ppm - STEL: 200 ppm - Notes: Eye and URT irr

**2-methoxy-1-methylethyl acetate** - CAS: 108-65-6
  - (OEL (IT)) - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Behaviour: Binding - Notes: Pelle
  - EU - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Notes: Skin

**xylene [isomer mixture]** - CAS: 1330-20-7
  - (OEL (IT)) - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Behaviour: Binding - Notes: pelle
  - EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: Skin

**toluene** - CAS: 108-88-3
  - (OEL (IT)) - TWA(8h): 192 mg/m3, 50 ppm - Behaviour: Binding - Notes: Pelle
  - EU - TWA(8h): 192 mg/m3, 50 ppm - STEL: 384 mg/m3, 100 ppm - Notes: Skin

**ethylbenzene** - CAS: 100-41-4
  - (OEL (IT)) - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Behaviour: Binding - Notes: pelle
  - EU - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Notes: Skin

**hexamethylene-di-isocyanate** - CAS: 822-06-0
  - (OEL (IT)) - TWA: 0.005 ppm
  - ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr, resp sens

**DNEL Exposure Limit Values**

**ethyl acetate** - CAS: 141-78-6
  - Worker Industry: 1468 mg/m3 - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
  - Worker Industry: 1468 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)
  - Worker Industry: 63 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
  - Worker Industry: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
  - Worker Industry: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
  - Consumer: 4.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
  - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)
  - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
  - Consumer: 37 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, local effects
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Hexamethylene diisocyanate, oligomers - CAS: 28182-81-2
Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

n-butyl acetate - CAS: 123-86-4
Worker Professional: 600 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: 300 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 275 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 54.8 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene [isomer mixture] - CAS: 1330-20-7
Worker Industry: 180 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 108 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1872 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 12.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3
Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
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Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 226 mg/m³ - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 8.13 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 384 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 384 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 192 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4
Worker Industry: 180 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

hexamethylene-di-isocyanate - CAS: 822-06-0
Worker Industry: 0.07 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 0.035 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 0.035 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values
ethyl acetate - CAS: 141-78-6
Target: Fresh Water - Value: 0.26 mg/l
Target: Marine water - Value: 0.026 mg/l
Target: Freshwater sediments - Value: 1.25 mg/kg
Target: Marine water sediments - Value: 0.125 mg/kg
Target: Soil (agricultural) - Value: 0.24 mg/kg
Target: orally (secondary poisoning) - Value: 200 mg/kg - Notes:: Dietetico
Target: STP - Value: 650 mg/l

Hexamethylene diisocyanate, oligomers - CAS: 28182-81-2
Target: Fresh Water - Value: 0.127 mg/l
Target: Marine water - Value: 0.0127 mg/l
Target: occasional emission - Value: 1.27 mg/l
Target: Freshwater sediments - Value: 266700 mg/kg dwt
Target: Marine water sediments - Value: 26670 mg/kg dwt
Target: Microorganisms in sewage treatments - Value: 38.3 mg/l
Target: Soil (agricultural) - Value: 53182 mg/kg dwt

n-butyl acetate - CAS: 123-86-4
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 mg/l
Target: Freshwater sediments - Value: 0.981 mg/kg
Target: Marine water sediments - Value: 0.0981 mg/kg
Target: Soil (agricultural) - Value: 0.0903 mg/kg
8.2. Exposure controls

Eye protection:
Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

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

Protection for hands:
Because of the synergetic effect of the substances contained in the formulation it is not possible to identify a unique material that can resist to their fusion. Multi-layer protective gloves can be suitable for mixes of substances. Pay attention to the data about grade of protection and of permeation rate furnished by the producer of the gloves about the substances listed on point 3 of this sheet.

Respiratory protection:
Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.
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Thermal Hazards:
None known

Environmental exposure controls:
None known

Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance and colour: liquid
Odour: characteristic
Odour threshold: N.A.
pH: N.A.
Melting point / freezing point: < 1°C
Initial boiling point and boiling range: > 55°C
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Flash point: < 23°C (< 73.4 °F)
Evaporation rate: N.A.
Vapour pressure: N.A.
Relative density: 0.9400 Kg/l a 20°C
Solubility in water: N.A.
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: > 250°C
Decomposition temperature: N.A.
Viscosity (typical value): 12.00 " Din cup # 4
 Explosive properties: N.A.
 Oxidizing properties: N.A.

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

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
No dangerous reaction is stored and used appropriately.

10.4. Conditions to avoid
Avoid accumulating electrostatic charge.
Vapours can form explosive mixtures with air.

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

10.6. Hazardous decomposition products
vapours potentially dangerous to health may be released.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:
N.A.

Toxicological information of the main substances found in the product:
ethyl acetate - CAS: 141-78-6
  a) acute toxicity:
    Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg
    Test: LD50 - Route: Oral - Species: Rat = 5620 mg/kg
    Test: LC50 - Route: Inhalation - Species: Rat > 29.3 mg/l - Duration: 4h
    Test: LD50 - Route: Oral - Species: Rabbit = 4934 mg/kg body weight
  b) skin corrosion/irritation:
    Test: Skin Irritant - Route: Skin - Species: Rabbit  Negative
  e) germ cell mutagenicity:
    Test: Genotoxicity Negative
  j) aspiration hazard:
    Test: Respiratory Tract Corrosive - Route: Inhalation Positive
Hexamethylene diisocyanate, oligomers - CAS: 28182-81-2
  a) acute toxicity:
    Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg
    Test: LC50 - Route: Inhalation - Species: Rat = 390 mg/m3 - Duration: 4h - Notes: ( OCSE Guide line 403 )
    Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
  b) skin corrosion/irritation:
    Test: Skin Irritant - Species: Rabbit Negative
    Test: Respiratory Tract Irritant Positive
  c) serious eye damage/irritation:
    Test: Eye Irritant Negative
  d) respiratory or skin sensitisation:
    Test: Skin Sensitization - Species: Cavia porcellus Positive
n-butyl acetate - CAS: 123-86-4
  a) acute toxicity:
    Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h
    Test: LD50 - Route: Oral - Species: Rat = 10736 mg/kg - Notes: Method OECD linee guide 402
    Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
  a) acute toxicity:
    Test: LD50 - Route: Oral - Species: Rat = 8532 mg/kg
    Test: LC50 - Route: Skin - Species: Rat > 5000 mg/kg
    Test: LC50 - Route: Inhalation Mist - Species: Rat > 23.8 mg/l - Duration: 6h
  b) skin corrosion/irritation:
    Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
xylene [isomer mixture] - CAS: 1330-20-7
  a) acute toxicity:
    Test: LD50 - Route: Inhalation - Species: Rat = 27 mg/l - Duration: 4h
    Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
    Test: LD50 - Route: Skin - Species: Rabbit = 12126 mg/kg
toluene - CAS: 108-88-3
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a) acute toxicity:
   Test: LD50 - Route: Oral - Species: Rat 636 mg/kg
   Test: LD50 - Route: Skin - Species: Rabbit 12267 mg/kg
   Test: LC50 - Route: Inhalation - Species: Rat 25.7 mg/l - Duration: 4h
   ethylbenzene - CAS: 100-41-4
   a) acute toxicity:
      Test: LD50 - Route: Skin - Species: Rabbit = 15400 mg/kg
      Test: LC50 - Route: Inhalation - Species: Rat = 4000 Ppm - Duration: 4h
d) respiratory or skin sensitisation:
   Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Negative
   hexamethylene-di-isocyanate - CAS: 822-06-0
   a) acute toxicity:
      Test: LD50 - Route: Oral - Species: Rat = 746 mg/kg - Notes: Method: OECD TG 401
      Test: LD50 - Route: Skin - Species: Rabbit > 7000 mg/kg - Notes: Method: OECD TG 402
      Test: LC50 - Route: Inhalation - Species: Rat = 0.124 mg/l - Duration: 4h - Notes: Method: OECD TG 403 - Conc. del vapore saturo di 1,6-HDI a 25°C 0,095 mg/l
      Test: NOAEL - Route: Inhalation - Species: Rat 0.035 mg/m3 - Duration: 6h - Notes: Method OECD linee guide 453
      Test: LOAEL - Route: Inhalation - Species: Rat 0.175 mg/m3 - Duration: 6h - Notes: Method OECD linee guide 453

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:
   a) acute toxicity;
   b) skin corrosion/irritation;
   c) serious eye damage/irritation;
   d) respiratory or skin sensitisation;
   e) germ cell mutagenicity;
   f) carcinogenicity;
   g) reproductive toxicity;
   h) STOT-single exposure;
   i) STOT-repeated exposure;
   j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity
   Adopt good working practices, so that the product is not released into the environment.
   ethyl acetate - CAS: 141-78-6
   a) Aquatic acute toxicity:
      Endpoint: LC50 - Species: Fish = 454.7 mg/l - Duration h: 96
      Endpoint: EC50 - Species: Daphnia = 154 mg/l - Duration h: 48
      Endpoint: EC50 - Species: Algae = 3300 mg/l - Duration h: 48
   b) Aquatic chronic toxicity:
      Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72
   Hexamethylene diisocyanate, oligomers - CAS: 28182-81-2
   a) Aquatic acute toxicity:
      Endpoint: LC50 - Species: Fish = 8.9 mg/l - Duration h: 96
      Endpoint: EC50 - Species: Daphnia = 127 mg/l - Duration h: 48
      Endpoint: CE20 - Species: Active mud = 3828 mg/l - Duration h: 3
      Endpoint: ErC50 - Species: Algae > 1000 mg/l - Duration h: 72
   n-butyl acetate - CAS: 123-86-4
a) Aquatic acute toxicity:
   Endpoint: LC50 - Species: Fish = 64 mg/l - Duration h: 48
   Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24
   Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
   a) Aquatic acute toxicity:
      Endpoint: LC50 - Species: Fish > 100 ml/l - Duration h: 96 - Notes: Method OECD linee guide 203
      Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48 - Notes: Method Direttiva 67/548CEE allegato V.C.2
      Endpoint: ErC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Method OECD TG 209
xylene [isomer mixture] - CAS: 1330-20-7
   a) Aquatic acute toxicity:
      Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 48
      Endpoint: LC50 - Species: Fish = 3.2 mg/l - Duration h: 96
      Endpoint: LC50 - Species: Algae = 2.6 mg/l - Duration h: 73
toluene - CAS: 108-88-3
   a) Aquatic acute toxicity:
      Endpoint: EC50 - Species: Algae = 12500 Ppm - Duration h: 72
      Endpoint: EC50 - Species: Algae > 433 Ppm - Duration h: 96
b) Aquatic chronic toxicity:
   Endpoint: NOEC - Species: Daphnia = 1000 Ppm - Duration h: 504
ethylbenzene - CAS: 100-41-4
   a) Aquatic acute toxicity:
      Endpoint: LC50 - Species: Fish = 42.3 mg/l - Duration h: 96
12.2. Persistence and degradability
   None known
   N.A.
12.3. Bioaccumulative potential
   N.A.
12.4. Mobility in soil
   N.A.
12.5. Results of PBT and vPvB assessment
   vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
   None known

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. Where applicable, refer to the following regulatory provisions: 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

SECTION 14: Transport information
14.1. UN number
   ADR-UN Number: 1263
   IATA-Un number: 1263
   IMDG-Un number: 1263
14.2. UN proper shipping name
ADR-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IATA-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IMDG-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

14.3. Transport hazard class(es)
ADR-Class: 3
ADR-Label: 3
ADR - Hazard identification number: 33
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3

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

14.5. Environmental hazards

14.6. Special precautions for user
ADR-Tunnel Restriction Code: 2 (D/E)
IATA-Passenger Aircraft: 353
IATA-Cargo Aircraft: 364
IMDG-Technical name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IMDG-EMS: F-E , S-E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

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:
None
Where applicable, refer to the following regulatory provisions:

1999/13/EC (VOC directive)

Total Volatile Organic Compounds (typical value): 70 %
Total Volatile Organic Carbon (typical value): 41.27 %
Total solids content: 29.4 - 30.6 %

15.2. Chemical safety assessment
No

SECTION 16: Other information

Text of phrases referred to under heading 3:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
H322 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H312 Harmful in contact with skin.
H361 Suspected of damaging fertility or the unborn child.
H302 Harmful if swallowed.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 11: Toxicological information

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 - Eighth Edition - Van Nostrand Reinold
ACGIH - Threshold Limit Values - 2004 edition
Restricted to professional users

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.
Safety Data Sheet
CTN52 - Catalizzatore NI

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

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).
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.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK: German Water Hazard Class.
N.A.: N.A.
N.D.:

End of Safety Data Sheet
Safety Data Sheet
CTN52 - Catalizzatore Ni

Label model

CTN52
Catalizzatore Ni

Hazard pictograms:

Danger

Hazard statements:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use CO2, Foam, Chemical powders to extinguish.

Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

Contains
ethyl acetate
Hexamethylene diisocyanate, oligomers
n-butyl acetate
xylene [isomer mixture]
hexamethylene-di-isocyanate: May produce an allergic reaction.

Quantity:               Company: