



Safety Data Sheet NTC90

Safety Data Sheet dated 27/04/2001 version 6.1 dated 24/7/2015

This safety data sheet has been completely updated in compliance to Regulation 2015/830/EU.

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

1.1. Product identifier

Mixture identification:

Trade name: INDURA - CELLULOSE - GLOSS

Trade code: NTC90

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

Recommended use:

As top coat for machinery, agricultural machines, shelving and wood manufactured items.

1.3. Details of the supplier of the safety data sheet

Seller:

Capella Solutions Group. Second Avenue, Chatham, Kent ME4 5AU Tel. +44 (0)1634 823907 - Fax +44 (0)1634 823909

Competent person responsible for the safety data sheet: sales@capellasolutionsgroup.com

1.4. Emergency telephone number Tel: +44(0) 1634 823900 (08.00 / 17.00)







UK: NPIS National Poisons Information Centre Tel: +44 0344 892 0111

IRL: Beaumont Hospital - National Poisons Information Centre: Tel: +353 1 8092566

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, Skin Irrit. 2, Causes skin irritation.
-  Danger, Eye Dam. 1, Causes serious eye damage.
-  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.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard statements:

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H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 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.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/clothing and eye/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor/...
 P370+P378 In case of fire, use a foam fire extinguisher to extinguish.

Special Provisions:

None

Contents:

toluene
 n-butyl acetate
 ethyl acetate
 isobutyl acetate

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards











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:

| Qty | Name | Ident. Number | Classification |
|---------------------|-----------------|--|---|
| >= 15% - < 20% | toluene | Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-21194713 10-51 |  2.6/2 Flam. Liq. 2 H225  3.7/2 Repr. 2 H361d  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 |
| >= 12.5% - < 15% | n-butyl acetate | Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-21194854 93-29 |  2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336 EUH066 |
| >= 10% - < 12.5% | xylene | Index number: 601-022-00-9 |  2.6/3 Flam. Liq. 3 H226  3.10/1 Asp. Tox. 1 H304 |

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| | | | |
|------------------|--|---|---|
| | | CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-21194882 16-32 |  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 |
| >= 7% - < 10% | ethyl acetate | Index number: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 REACH No.: 01-21194751 03-46 |  2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336 EUH066 |
| >= 7% - < 10% | isobutyl acetate | Index number: 607-026-00-7 CAS: 110-19-0 EC: 203-745-1 REACH No.: 01-21194889 71-22 |  2.6/2 Flam. Liq. 2 H225  3.8/3 STOT SE 3 H336 EUH066 |
| >= 3% - < 5% | butan-1-ol; n-butanol | Index number: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 REACH No.: 01-21194846 30-38 |  2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H335  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.8/3 STOT SE 3 H336  3.1/4/Oral Acute Tox. 4 H302 |
| >= 3% - < 5% | propan-2-ol; isopropyl alcohol; isopropanol | Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-21194575 58-25 |  2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336 |
| >= 1% - < 3% | 2-butoxyethanol; ethylene glycol monobutyl ether | Index number: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH No.: 01-21194751 08-36 |  3.3/2 Eye Irrit. 2 H319  3.2/2 Skin Irrit. 2 H315  3.1/4/Oral Acute Tox. 4 H302  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Inhal Acute Tox. 4 H332 |
| >= 1% - < 3% | 2-methoxy-1-methylethyl acetate | Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-21194757 91-29 |  2.6/3 Flam. Liq. 3 H226 |

The full text of H-phrases is shown in section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

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- Wash with plenty of water.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, 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.
- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
- toluene - CAS: 108-88-3
EU - LTE(8h): 192 mg/m³, 50 ppm - STE: 384 mg/m³, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss
- n-butyl acetate - CAS: 123-86-4
ACGIH - LTE(8h): 150 ppm - STE: 200 ppm - Notes: Eye and URT irr
- xylene - CAS: 1330-20-7
EU - LTE(8h): 221 mg/m³, 50 ppm - STE: 442 mg/m³, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE(8h): 100 ppm - STE: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- ethyl acetate - CAS: 141-78-6
ACGIH - LTE(8h): 400 ppm - Notes: URT and eye irr
- isobutyl acetate - CAS: 110-19-0
ACGIH - LTE(8h): 150 ppm - Notes: Eye and URT irr
- butan-1-ol; n-butanol - CAS: 71-36-3
ACGIH - LTE(8h): 61 mg/m³, 20 ppm - Notes: Eye and URT irr
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
ACGIH - LTE(8h): 490.8 mg/m³, 200 ppm - STE: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

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EU - LTE(8h): 98 mg/m³, 20 ppm - STE: 246 mg/m³, 50 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE(8h): 97 mg/m³, 20 ppm - Notes: A3, BEI - Eye and URT irr
2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - LTE(8h): 275 mg/m³, 50 ppm - STE: 550 mg/m³, 100 ppm - Notes: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

DNEL Exposure Limit Values

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

Worker Professional: 960 ppm - Consumer: 859.7 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 960 ppm - Consumer: 859.7 ppm - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 480 ppm - Consumer: 102.34 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 480 ppm - Consumer: 102.34 ppm - Exposure: Human Inhalation - Frequency: Long Term, local effects

xylene - CAS: 1330-20-7

Consumer: 260 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)

Consumer: 65.3 ppm - Exposure: Human Inhalation - Frequency: Long Term (repeated)

ethyl acetate - CAS: 141-78-6

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

Worker Professional: 1468 ppm - Consumer: 734 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 734 ppm - Consumer: 367 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

isobutyl acetate - CAS: 110-19-0

Worker Professional: 480 ppm - Consumer: 102.34 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 960 ppm - Consumer: 859.7 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

butan-1-ol; n-butanol - CAS: 71-36-3

Consumer: 3.1 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Worker Professional: 310 ppm - Consumer: 55 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 500 ppm - Consumer: 89 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Worker Professional: 89 mg/kg - Consumer: 44.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 135 ppm - Consumer: 426 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 50 ppm - Consumer: 123 ppm - Exposure: Human Inhalation - Frequency: Short Term, local effects

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Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects
Worker Professional: 20 ppm - Consumer: 49 ppm - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects
Worker Professional: 275 ppm - Consumer: 33 ppm - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects
Worker Professional: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal
- Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

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

Target: Soil (agricultural) - Value: 0.0903 mg/kg
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

xylene - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/l
Target: Marine water - Value: 0.327 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water - Value: 12.46 mg/kg
Target: Soil (agricultural) - Value: 2.31 mg/kg

ethyl acetate - CAS: 141-78-6

Target: Food chain - Value: 200 mg/kg
Target: Fresh Water - Value: 0.26 mg/l
Target: Freshwater sediments - Value: 1.25 mg/kg
Target: Microorganisms in sewage treatments - Value: 650 mg/l
Target: Soil (agricultural) - Value: 0.24 mg/kg

isobutyl acetate - CAS: 110-19-0

Target: Freshwater sediments - Value: 0.877 mg/kg
Target: Marine water sediments - Value: 0.0877 mg/kg
Target: Soil (agricultural) - Value: 0.0755 mg/kg
Target: Fresh Water - Value: 0.17 mg/l
Target: Marine water - Value: 0.017 mg/l

butan-1-ol; n-butanol - CAS: 71-36-3

Target: Soil (agricultural) - Value: 0.015 mg/kg
Target: Fresh Water - Value: 0.082 mg/l
Target: Marine water - Value: 0.0082 mg/l
Target: Freshwater sediments - Value: 0.178 mg/l
Target: Microorganisms in sewage treatments - Value: 2476 mg/l

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Target: Food chain - Value: 160 mg/kg
Target: Fresh Water - Value: 140.9 mg/l
Target: Marine water - Value: 140.9 mg/l
Target: Freshwater sediments - Value: 552 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Target: Fresh Water - Value: 8.8 mg/l
Target: Marine water - Value: 0.88 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 2.8 mg/kg

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

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Target: Fresh Water - Value: 0.635 mg/l
 Target: Freshwater sediments - Value: 3.29 mg/kg
 Target: Marine water sediments - Value: 0.329 mg/kg
 Target: Microorganisms in sewage treatments - Value: 100 mg/l

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

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.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|---|-----------------------------------|---------|--------|
| Appearance and colour: | clear colourless liquid | -- | -- |
| Odour: | Characteristic | -- | -- |
| Odour threshold: | N.A. | -- | -- |
| pH: | N.A. | -- | -- |
| Melting point / freezing point: | N.A. | -- | -- |
| Initial boiling point and boiling range: | 79-80°C | -- | -- |
| Flash point: | 4 °C | -- | -- |
| Evaporation rate: | N.A. | -- | -- |
| Solid/gas flammability: | N.A. | -- | -- |
| Upper/lower flammability or explosive limits: | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Vapour density: | > 1 | -- | -- |
| Relative density: | 0.950 g/cm ³ - 20°C | -- | -- |
| Solubility in water: | insoluble | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient (n-octanol/water): | N.A. | -- | -- |
| Auto-ignition temperature: | > 400°C | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| Viscosity: | N.A. | -- | -- |

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|-----------------------|------|----|----|
| Explosive properties: | N.A. | -- | -- |
| Oxidizing properties: | N.A. | -- | -- |

9.2. Other information

| Properties | Value | Method: | Notes: |
|--------------------------------------|-------|---------|--------|
| 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

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

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

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 21.1 mg/l - Duration: 4h

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

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

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5620 mg/kg

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

Test: LC50 - Route: Inhalation - Species: Rat > 22.5 mg/l - Duration: 8h

isobutyl acetate - CAS: 110-19-0

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 17400 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 13413 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h

butan-1-ol; n-butanol - CAS: 71-36-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2.292 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 3.430 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 17.76 mg/l - Duration: 4h

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) acute toxicity:

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Test: LC50 - Route: Inhalation - Species: Rat > 25.000 mg/m³ - Duration: 8h
Test: LD50 - Route: Oral - Species: Rat = 5.840 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 13.900 mg/kg
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 8530 mg/kg

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.

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

a) Aquatic acute toxicity:

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

Endpoint: EC50 - Species: Algae = 648 mg/l - Duration h: 72

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

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Algae = 5600 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia = 260 mg/l - Duration h: 48

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

c) Bacteria toxicity:

Endpoint: EC50 = 5870 mg/l - Duration h: 0.25

isobutyl acetate - CAS: 110-19-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 17 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 25 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 370 mg/l - Duration h: 72

butan-1-ol; n-butanol - CAS: 71-36-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 225 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 1376 mg/l - Duration h: 96

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 9000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 9000 mg/l - Duration h: 24

c) Bacteria toxicity:

Endpoint: EC50 1050 mg/l

e) Plant toxicity:

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Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96
2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

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

12.2. Persistence and degradability

None

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

Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

ethyl acetate - CAS: 141-78-6

Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

isobutyl acetate - CAS: 110-19-0

Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

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

Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

12.3. Bioaccumulative potential

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Bioaccumulation: N.A. Test: Kow - Partition coefficient 0.81 - Duration: N.A. - Notes: n-ottanol/acqua

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

Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration: N.A. - Notes: 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

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|--|-----------------------------------|
| ADR-UN Number: | 1263 |
| IATA-UN Number: | 1263 |
| IMDG-UN Number: | 1263 |
| 14.2. UN proper shipping name | |
| ADR-Shipping Name: | PAINT |
| IATA-Shipping Name: | PAINT |
| IMDG-Shipping Name: | PAINT |
| 14.3. Transport hazard class(es) | |
| ADR-Class: | 3 |
| ADR - Hazard identification number: | 33 |
| IATA-Class: | 3 |
| IATA-Label: | 3 |
| IMDG-Class: | 3 |
| Sea (IMO): | Classe 3, P.G. III - EmS F-E, S-E |
| 14.4. Packing group | |
| ADR-Packing Group: | III |
| IATA-Packing group: | III |
| IMDG-Packing group: | III |
| 14.5. Environmental hazards | |
| ADR-Environmental Pollutant: | No |
| IMDG-Marine pollutant: | No |
| 14.6. Special precautions for user | |
| ADR-Subsidiary risks: | - |
| ADR-S.P.: | 163 640H 650 |
| ADR-Tunnel Restriction Code: | (D/E) |
| IATA-Passenger Aircraft: | 355 |
| IATA-Subsidiary risks: | - |
| IATA-Cargo Aircraft: | 366 |
| IATA-S.P.: | A3 A72 |
| IATA-ERG: | 3L |
| IMDG-EmS: | F-E , S-E |
| IMDG-Subsidiary risks: | - |
| IMDG-Storage category: | Category A |
| IMDG-Storage notes: | - |
| 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)

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Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 30

Restriction 48

Volatile Organic compounds - VOCs = 69.14 %

Volatile Organic compounds - VOCs = 653.85 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.50

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

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

1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.

H361d Suspected of damaging 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.

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

EUH066 Repeated exposure may cause skin dryness or cracking.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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

This MSDS cancels and replaces any preceding release.

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| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| 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.: | N.A. |