







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

1.1. Product identifier

Mixture identification:

Trade name: Nordflex H 0107

Trade code: H 0107

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

Hardener for polyacrylic enamel for industrial use.

Only for professional use.

Not for autobody shop use.

1.3. Details of the supplier of the safety data sheet

Company:

Ind. Chimica Reggiana I.C.R. Spa

Via Gasparini, 7 42124 REGGIO EMILIA Italia

Tel. +39 0522/517803 Fax +39 0522/514384

Competent person responsible for the safety data sheet: sdsre@icrsprint.it

1.4. Emergency telephone number Tel. +39 0522-517803

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

F Highly flammable
X Xn Harmful
X Irritant

R Phrases:

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

EC regulation criteria 1272/2008 (CLP):

Danger, Flam. Liq. 2, Highly flammable liquid and vapour.

Warning, Acute Tox. 4, Harmful if inhaled.

Warning, Acute Tox. 4, Harmful in contact with skin.

Warning, Eye Irrit. 2, Causes serious eye irritation.

Warning, STOT SE 3, May cause respiratory irritation.

Warning, Skin Irrit. 2, Causes skin irritation.

Danger, Resp. Sens. 1, 1A, 1B, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Warning, Skin Sens. 1, 1A, 1B, May cause an allergic skin reaction.

Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure if inhaled.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

Xn Harmful

🔥 F Highly flammable

R Phrases:

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

S Phrases

S23 Do not breathe spray

S25 Avoid contact with eyes.

S29 Do not empty into drains.

S3/7 Keep container tightly closed in a cool place.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51 Use only in well-ventilated areas.

Contents:

Xylene

Aromatic polyisocyanate

Hexamethylene-1,6-di-isocyanate (homopolymer)

Toluene-2,4-di-isocyanate

Special Provisions:

Contains isocyanates. See information supplied by the manufacturer.

Symbols:



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Danger
                       azara statements:
                             H225 Highly flammable liquid and vapour.
                             H312+H332 Harmful in contact with skin or if inhaled.
                             H319 Causes serious eye irritation.
                             H335 May cause respiratory irritation.
                             H315 Causes skin irritation.
                             H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
                             H317 May cause an allergic skin reaction.
                             H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
                    Precautionary statements:
P260 Do not breathe vapours or spray.
                             P271 Use only outdoors or in a well-ventilated area.
                             P280.D Wear protective gloves and clothing and eye protection.
                             P314 Get medical advice/attention if you feel unwell.
                            P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
                             P501 Dispose of contents/container in accordance with applicable regulations.
                    Special Provisions:
                             EUH204 Contains isocyanates. May produce an allergic reaction.
                    Contents:
                             Xylene
                             Toluene-2,4-di-isocyanate
                            Hexamethylene-1,6-di-isocyanate (homopolymer)
                             Aromatic polyisocyanate
                    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 EEC directive 67/548 and CLP regulation and related classification:
        >= 30% - < 40% Xylene
                REACH No.: 01-2119488216-32, Index number: 601-022-01-6, CAS: 1330-20-7, EC: 215-535-7
                 Xn,Xi; R36/37/38-48/20-65-10-20/21

    2.6/3 Flam. Liq. 3 H226
    3.1/4/Inhal Acute Tox. 4 H332

                 13.3/2 Eye Irrit. 2 H319
13.8/3 STOT SE 3 H335
                 1 3.2/2 Skin Irrit. 2 H315
                 🕸 3.9/2 STOT RE 2 H373
                 3.10/1 Asp. Tox. 1 H304
        >= 15% - < 20% Aromatic polyisocyanate
                REACH No.: Polimero, CAS: 53317-61-6, EC: 500-120-8
                 Xi; R36-43
                 ① 3.3/2 Eye Irrit. 2 H319
                 ♦ 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317
        >= 15% - < 20% Hexamethylene-1,6-di-isocyanate (homopolymer)
                 REACH No.: 01-2119485796-17, CAS: 28182-81-2, EC: 500-060-2
                 Xn.Xi: R20-37-43
                 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317
        >= 10% - < 12.5% n-butyl acetate
                 REACH No.: 01-219485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1
                 R10-66-67; substance with a Community workplace exposure limit

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

        >= 10% - < 12.5% 2-methoxy-1-methylethyl acetate
REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
                 R66-10; substance with a Community workplace exposure limit
                 ♦ 2.6/3 Flam. Liq. 3 H226
        >= 5% - < 7% ethyl acetate
                 REACH No.: 01-2119475103-46, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4
                 F,Xi; R11-36-66-67

    2.6/2 Flam. Liq. 2 H225

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- 3.3/2 Eye Irrit. 2 H319
- 3.8/3 STOT SE 3 H336

>= 0.25% - < 0.5% ethylbenzene

REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

F,Xn; R11-20

- 2.6/2 Flam. Liq. 2 H225
- 3.1/4/Inhal Acute Tox. 4 H332

DECLJ*

>= 0.25% - < 0.5% Tosyl isocyanate

REACH No.: Pre-reg., Index number: 615-012-00-7, CAS: 4083-64-1, EC: 223-810-8

Xn,Xi; R14-36/37/38-42

- 3.3/2 Eye Irrit. 2 H319
- ❖ 3.8/3 STOT SE 3 H335
 - 3.2/2 Skin Irrit. 2 H315
- 3.4.1/1-1A-1B Resp. Sens. 1, 1A, 1B H334

>= 0.1% - < 0.25% Toluene-2,4-di-isocyanate

REACH No.: 01-2119454791-34, Index number: 615-006-00-4, CAS: 26471-62-5, EC: 247-722-4

Carc. Cat. 3,T+,Xn,Xi; R26-36/37/38-40-42/43-52/53 3.6/2 Carc. 2 H351

- 3.3/2 Eye Irrit. 2 H319
- 3.8/3 STOT SE 3 H335
- 3.2/2 Skin Irrit. 2 H315
- 3.4.1/1-1A-1B Resp. Sens. 1, 1A, 1B H334 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317
- 4.1/C3 Aquatic Chronic 3 H412
- 3.1/2/Inhal Acute Tox. 2 H330

*DECLJ: Substance classified accordingly to Note J of the Annex I of directive 67/548/EEC. The 'Carcinogenic' classification is not necessary if you can demonstrate that the substance contains less than 0.1% weight/weight of benzene

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. 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 opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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

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

See section 11 for known symptoms and effects.

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:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Do not use water jets. Water may noty be effective fire fighting measure, however it can be used to cool closed containers close to flames as to avoid bursting and exploding.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavysmoke.

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.

H 0107 / 5 /

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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.

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

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

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.

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. Contamined 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

Always keep the containers tightly closed.

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

Keep away from food, drink and feed.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

See Point 1.2

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters
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Xylene - CAS: 1330-20-7
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EU - LTE(8h): 221 mg/m3, 50 ppm - STE(): 442 mg/m3, 100 ppm - Notes: Assorbito attraverso la pelle

ACGIH - LTE(8h): 221 mg/m3, 50 ppm - STE(): 442 mg/m3, 100 ppm - No n-butyl acetate - CAS: 123-86-4

EU, 150 ppm, 200 ppm

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

EU - LTE(8h): 275 mg/m3, 50 ppm - STE: 550 mg/m3, 100 ppm - Notes: H

ethyl acetate - CAS: 141-78-6

ACGIH, 400 ppm

ethylbenzene - CAS: 100-41-4

ICR1 - LTE(8h): 442 mg/m3, 100 ppm - STE(): 884 mg/m3, 200 ppm - Notes: Pelle

EU - LTE: 442 mg/m3, 100 ppm - STE: 884 mg/m3, 200 ppm

Toluene-2,4-di-isocyanate - CAS: 26471-62-5

ACGIH - LTE: 0.036 mg/m3, 0.005 ppm - STE: 0.14 mg/m3, 0.02 ppm

DNEL Exposure Limit Values

Xylene - CAS: 1330-20-7

Worker Professional: 289 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term,

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

Hexamethylene-1,6-di-isocyanate (homopolymer) - CAS: 28182-81-2

Worker Professional: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Professional: 0.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

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

Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 960 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Worker Professional: 960 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects 2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Professional: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term,

Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term,



systemic effects ethyl acetate - CAS: 141-78-6

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Worker Professional: 1468 mg/m3 - Consumer: 734 mg/kg - Exposure: Human Inhalation - Frequency: Short
                         Term. systemic effects
                         Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long
                         Term, local effects
                         Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short
                         Term, local effects
                         Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal - Frequency: Long Term,
                         systemic effects
                         Worker Professional: 734 mg/m3 - Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long
                         Term, systemic effects
        PNEC Exposure Limit Values
                 Xylene - CAS: 1330-20-7
                         Target: STP - Value: 6.58 mg/l
                         Target: Marine water - Value: 0.327 mg/l
                         Target: Intermittent emissions - Value: 0.327 mg/l
                         Target: Freshwater sediments - Value: 12.46 mg/kg
                         Target: Marine water sediments - Value: 12.46 mg/kg
                         Target: Soil - Value: 2.31 mg/kg
Target: Fresh Water - Value: 0.327 mg/l
                 Hexamethylene-1,6-di-isocyanate (homopolymer) - CAS: 28182-81-2
                         Target: Fresh Water - Value: 0.127 mg/l
                         Target: Marine water - Value: 0.0127 mg/l
                         Target: Freshwater sediments - Value: 266700 mg/kg
Target: Soil - Value: 53182 mg/kg
                         Target: Purification plant - Value: 38.28 mg/l
                 n-butyl acetate - CAS: 123-86-4
                         Target: STP - Value: 35.6 mg/l
                         Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 mg/l
                         Target: Intermittent emissions - Value: 0.36 mg/l
Target: Freshwater sediments - Value: 0.981 mg/kg
                         Target: Marine water sediments - Value: 0.0981 mg/kg
                         Target: Soil - Value: 0.0903 mg/kg
                 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
                         Target: Intermittent emissions - Value: 100 mg/l
                         Target: Freshwater sediments - Value: 3.29 mg/kg
                         Target: Marine water sediments - Value: 0.329 mg/kg
                         Target: Soil - Value: 0.29 mg/kg
                         Target: Fresh Water - Value: 0.635 mg/l
                         Target: Marine water - Value: 0.0635 mg/l
                 ethyl acetate - CAS: 141-78-6
                         Target: Fresh Water - Value: 0.26 mg/l
                         Target: Marine water - Value: 0.026 mg/l
                         Target: Intermittent emissions - Value: 1.65 mg/l
                         Target: Purification plant - Value: 650 mg/l
                         Target: Freshwater sediments - Value: 1.25 mg/kg
                         Target: Marine water sediments - Value: 0.125 mg/kg
                         Target: Soil - Value: 0.24 mg/kg
                         Target: Oral - Value: 0.2 03
        8.2. Exposure controls
        Eye protection:
                 Use face-mask or close fitting safety goggles (e.g. EN166 F3). Do not wear contact lenses.
         Protection for skin:
                 Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g.
                 Tyrek). Please note: safety clothing must be changed immediately if it comes in contact with product.
         Protection for hands:
                 Use protective gloves that provides comprehensive protection, EN374 Class 3 (B-F-I). Permeation time > 30
                 minutes; 0.4 mm thickness.
         Respiratory protection:
                 Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and vapors with boiling
                 points over 65°C.
        Thermal Hazards:
                None
         Environmental exposure controls:
                 Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental
                 protection legistation. In some cases the addition of vapour scrubbers, filters or other system modification may be
                 necessary in order to reduce emissions to acceptable levels.
SECTION 9: Physical and chemical properties
        9.1. Information on basic physical and chemical properties
                 Appearance and colour:
                                                           Transparent liquid
                 Odour:
                                                           Typical disolventi
                 Odour threshold:
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H 0107 / 5 /

Melting point / freezing point:

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Initial boiling point and boiling range:
                                                            77,1° C
                 Solid/gas flammability:
                                                            N.A.
                 Upper/lower flammability or explosive limits:
                                                                         2,2 % - 11,5 % vol
                 Vapour density:
                                                            N.D
                 Flash point:
                                                            -4°C
                 Evaporation rate:
                                                            N.D.
                                                            98,3 hPa
                 Vapour pressure:
                 Relative density:
                                                            1,00 \pm 0,05 \,\mathrm{g/cm^3}
                 Solubility in water:
                                                            Insoluble
                 Solubility in oil:
                                                            N.D.
                 Auto-ignition temperature:
                                                            427°C
                 Decomposition temperature:
                                                            N.D.
                 Viscosity:
                                                            N.D.
                 Explosive properties:
                                                            N.D.
                 Oxidizing properties:
                                                            N.D.
SECTION 10: Stability and reactivity
         10.1. Reactivity
                 Stable under normal conditions
         10.2. Chemical stability
                 Stable under recommended use and storage conditions (see point 7).
         10.3. 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.
         10.4. Conditions to avoid
                 Avoid accumulating electrostatic charge.
         10.5. Incompatible materials
                 Avoid all contact with water or with moist air.
                 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:
                 Ň.A.
         Toxicological information of the main substances found in the mixture:
                 Xylene - CAS: 1330-20-7
                 a) acute toxicity:
                          Test: LC50 - Route: Inhalation - Species: Rat = 6350 Ppm - Duration: 4h
                          Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
                          Test: LD50 - Route: Skin - Species: Rabbit = 4350 mg/kg
                 Aromatic polyisocyanate - CAS: 53317-61-6
                 a) acute toxicity:
                          Test: LD50 - Route: Oral - Species: Rat > 5.000 mg/kg
                 b) skin corrosion/irritation:
                          Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
                 d) respiratory or skin sensitisation:
                          Test: Skin Sensitization - Route: Skin - Species: GUINEA PIG Positive
                 Hexamethylene-1,6-di-isocyanate (homopolymer) - CAS: 28182-81-2
                 a) acute toxicity:
                          Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LC50 - Route: Inhalation Mist - Species: Rat = 390 mg/m3 - Duration: 4h
                 b) skin corrosion/irritation:
                          Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Notes: Debolamente irritante
                 d) respiratory or skin sensitisation:
                          Test: Skin Sensitization - Route: Skin - Species: GUINEA PIG Positive - Source: Maximation Test
                 n-butyl acetate - CAS: 123-86-4
                 a) acute toxicity:
                          Test: LD50 - Route: Oral - Species: Rat > 6400 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
                          Test: LC50 - Route: Inhalation - Species: Rat = 21.1 mg/l - Duration: 4h
                 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
                 a) acute toxicity:
                          Test: LC50 - Route: Inhalation - Species: Rat = 35.7 mg/l
                          Test: LD50 - Route: Oral - Species: Rat = 8500 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l
                 ethyl acetate - CAS: 141-78-6
                 a) acute toxicity:
                          Test: LC50 - Route: Inhalation - Species: Rat = 1600 mg/l
                          Test: LD50 - Route: Oral - Species: Rabbit = 4935 mg/kg
                          Test: LD50 - Route: Oral - Species: Rat = 11.3 g/kg
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N.A. (organic solvent)

N.D.



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ethylbenzene - CAS: 100-41-4
                a) acute toxicity:
                        Test: LC50 - Route: Inhalation - Species: Mouse = 35500 mg/m3
                        Test: LC50 - Route: Inhalation - Species: Rat = 55000 mg/m3
                        Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
                Tosyl isocyanate - CAS: 4083-64-1
                a) acute toxicity:
                        Test: LD50 - Route: Oral - Species: Rat = 2234 mg/kg
                        Test: LC50 - Route: Inhalation - Species: Rat = 640 Ppm - Duration: 1h
                Toluene-2,4-di-isocyanate - CAS: 26471-62-5
                a) acute toxicity:
                        Test: LD50 - Route: Inhalation Mist - Species: Rat = 6170 mg/kg
                Xylene - CAS: 1330-20-7
OBSERVATIONS ON HUMAN SUBJECTS NON-PROFESSIONAL EXPOSURE - Effects following acute
                        Symptoms of intense exposure are: dermatitis, eczema, irritation to the eyes and to the respiratory tract.
                        Inhaling the vapours can cause dizziness, headache, nausea, incoordination, excitability, narcosis, anaemia, and
                        paraesthesia of the hands and feet.
                        PROFESSIONAL EXPOSURE - Effects following acute exposure:
                        Narcotic at high concentrations.
                        Irritation through inhalation at 200 ppm (TCLo). Inhalation of 200 ppm has irritating effects in human subjects.
                        Human subject (oral)(LDLo): 50 mg/kg.
                        Inhalatory human subject (LCLo) 10000 ppm/6h.
                n-butyl acetate - CAS: 123-86-4
                        OBSERVATIONS ON HUMAN SUBJECTS:
                        Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose.
                        Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose.
                        Inhaling the vapours can irritate the respiratory system.
                        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.
                TCLo: 200 ppm
ethyl acetate - CAS: 141-78-6
                        OBSERVATIONS ON HUMAN SUBJECTS:
                        400 ppm: eye irritant.
                        Serious toxic effects at 2,000 ppm/60 mins, symptoms of malaise at 800 ppm.
                        Inhalatory toxicity: TCLo 400 ppm, irritation to nose, eyes, and respiratory system.
        If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:
                a) acute toxicity;b) skin corrosion/irritation;
                c) serious eyedamage/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.
                Toluene-2,4-di-isocyanate - CAS: 26471-62-5
                a) Aquatic acutetoxicity:
                        Endpoint: LC50 - Species: Fish = 164.4 mg/l - Duration h: 96
                        Endpoint: EC50 - Species: Daphnia = 750 mg/l - Duration h: 24
        12.2. Persistence and degradability
                Product can be regarded as not easily debiogradable considering its component substances.
        12.3. Bioaccumulative potential
                Not bioaccumulative
        12.4. Mobility in soil
                Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a
        signicant amount may penerate and pollute water table. 12.5. Results of PBT and vPvB assessment
                vPvB Substances: None - PBT Substances: None
        12.6. Other adverse effects
                None
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.

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.

H 0107 / 5 / EN



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SECTION 14: Transport information
         Limited quantities, not subject to ADR norms for internal packaging of up to 5 litres and maxium packaging of 30kg.
         14.1. UN number
                 ADR-UN number:
                                                             1263
                 IMDG-Un number:
                                                             1263
         14.2. UN proper shipping name
                 Shipping name:
                                                            Paints
         14.3. Transport hazard class(es)
                 ADR/RID:
                 Class:
                                                            3
                 Label:
                                                            3
                                                            F1
                 Classification Code:
                 Maritime (IMDG/IMO):
                 Class
                                                            3.2
                 Label:
         14.4. Packing group

ADR Packing Group::
                                                            Ш
         IMDG-Packing group:
14.5. Environmental hazards
                                                            Ш
                 Marine pollutant:
                                                            No
         14.6. Special precautions for user
                 IMDG-EMS:
                                                            F-E , S-E
         14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
SECTION 15: Regulatory information
         15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
                 Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
                 Dir. 98/24/EC (Risks related to chemical agents at work)
                 Dir. 2000/39/EC (Occupational exposure limit values)
                 Dir. 2006/8/EC
                 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) n. 453/2010 (Annex I)
                 Regulation (EU) n. 286/2011 (ATP 2 CLP)
                 Regulation (EU) n. 618/2012 (ATP 3 CLP)
         Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH)
        and subsequent modifications:
                 None
         Volatile Organic compounds - VOCs =625 g/Kg= 625 g/I
         Volatile CMR substances = 0.00 %
         Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
         Organic Carbon - C = 0.46
         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 (VÓC directive)
         15.2. Chemical safety assessment
                 Nο
SECTION 16: Other information
         Text of phrases referred to under heading 3:
                 R10 Flammable.
                 R11 Highly flammable.
                 R14 Reacts violently with water.
                 R20 Harmful by inhalation.
                 R20/21 Harmful by inhalation and in contact with skin.
                 R26 Very toxic by inhalation.
                 R36 Irritating to eyes.
                 R36/37/38 Irritating to eyes, respiratory system and skin.
                 R37 Irritating to respiratory system.
R40 Limited evidence of a carcinogenic effect.
                 R42 May cause sensitization by inhalation.
                 R42/43 May cause sensitization by inhalation and skin contact.
                 R43 May cause sensitization by skin contact.
                 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
                 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
                 R65 Harmful: may cause lung damage if swallowed.
                 R66 Repeated exposure may cause skin dryness or cracking.
                 R67 Vapours may cause drowsiness and dizziness.
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H226 Flammable liquid and vapour.





Safety Data Sheet CP007 PUR-HARD IND

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

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

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H225 Highly flammable liquid and vapour.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

H330 Fatal if inhaled.

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.

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.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IMDG: International Maritime Ćode 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.
N.A.: Not applicable.
N.D.: Not determined.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.
STEL: Short Term Exposurelimit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

