



## Safety Data Sheet dated 01/01/2025, version 1

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

1.1. Product identifier

Mixture identification:

Trade code and name: C16 UNIHARDENER HS FAST

UFI: M3HT-C270-600H-CVFA

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

Hardener for two-component polyurethane paints

Only for professional use.

1.3. Details of the supplier of the safety data sheet

Company:

Automotive Paint Systems Ltd

Unit 14 Tonge Bridge Industrial Estate, Tonge Bridge Way, Bolton, BL2 6BD

Tel. +44 01204 393 332

Competent person responsible for the safety data sheet:

automotivepaintsystems@yahoo.com

1.4. Emergency telephone number

UK :Tel. NHS 111

## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- ♦ Warning, Flam. Liq. 3, Flammable liquid and vapour.
- ◆ 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.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:





Warning

Hazard statements:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from open flames - No smoking..

P260.F Do not breathe vapours.

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

P273 Avoid release to the environment.

P280.D Wear protective gloves and clothing and eye protection.

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

## **Special Provisions:**

EUH204 Contains isocyanates. May produce an allergic reaction.

#### Contains

Hexamethylene diisocyanate oligomers, Isocyanurates

n-butyl acetate

Naphtha - hydrocarbons C9 aromatics

Xylene

tosyl isocyanate: May produce an allergic reaction.

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

None

## 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

#### 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
>= 40% - < 50%	Hexamethylene diisocyanate oligomers, Isocyanurates	CAS: EC: REACH No.:	28182-81-2 931-274-8 01- 2119485796- 17	<ul> <li>         \$\doldsymbol{0}\$ 3.1/4/Inhal Acute Tox. 4 H332     </li> <li>         \$\doldsymbol{0}\$ 3.4.2/1 Skin Sens. 1 H317     </li> <li>         \$\doldsymbol{0}\$ 3.8/3 STOT SE 3 H335     </li> </ul>
>= 40% - < 50%	n-butyl acetate	Index number: CAS: EC: REACH No.:	123-86-4 204-658-1	<ul><li>◆ 2.6/3 Flam. Liq. 3 H226</li><li>◆ 3.8/3 STOT SE 3 H336</li><li>EUH066</li></ul>
>= 7% - < 10%	Naphtha - hydrocarbons C9 aromatics	EC: REACH No.:	918-668-5 01- 2119455851- 35	<ul> <li></li></ul>
>= 3% - < 5%	Xylene	Index number: CAS: EC: REACH No.:	601-022-01-6 1330-20-7 215-535-7 01-	<ul> <li>♦ 2.6/3 Flam. Liq. 3 H226</li> <li>♦ 3.10/1 Asp. Tox. 1 H304</li> <li>♦ 3.9/2 STOT RE 2 H373</li> <li>♦ 3.1/4/Dermal Acute Tox. 4 H312</li> </ul>

			2119488216- 32	<ul> <li>         \$\delta\$ 3.1/4/Inhal Acute Tox. 4 H332</li> <li>         \$\delta\$ 3.2/2 Skin Irrit. 2 H315</li> <li>         \$\delta\$ 3.3/2 Eye Irrit. 2 H319</li> <li>         \$\delta\$ 3.8/3 STOT SE 3 H335</li> <li>         4.1/C3 Aquatic Chronic 3 H412</li> </ul>
>= 0.25% - < 0.5%	tosyl isocyanate	Index number: CAS: EC:	615-012-00-7 4083-64-1 223-810-8	<ul> <li>♦ 3.3/2 Eye Irrit. 2 H319</li> <li>♦ 3.8/3 STOT SE 3 H335</li> <li>♦ 3.2/2 Skin Irrit. 2 H315</li> <li>♦ 3.4.1/1-1A-1B Resp. Sens. 1,1A, 1B H334</li> <li>EUH014</li> <li>Specific Concentration Limits:</li> <li>C &gt;= 5%: Eye Irrit. 2 H319</li> <li>C &gt;= 5%: STOT SE 3 H335</li> <li>C &gt;= 5%: Skin Irrit. 2 H315</li> </ul>
>= 0.1% - < 0.25%	2,6-di-tert-butyl-4- methylphenol	CAS: EC: REACH No.:	128-37-0 204-881-4 01- 2119565113- 46	♦ 4.1/A1 Aquatic Acute 1 H400 ♦ 4.1/C1 Aquatic Chronic 1 H410

All component substances of this product have been registered under REACH or are exempt from REACH registration.

Subtances in Section 3 not showing REACH registration codes are exempt from registration.

## **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. If irritation persists: Get medical advice/attention.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

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

SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

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

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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 not be effective fire fighting measure, however it can be used to cool closed

containers close to flames as to avoid bursting and exploding.

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Carbon oxides.

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.

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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to

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

Keep away from food, drink and feed.

None in particular.

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**

#### 8.1. Control parameters

Hexamethylene diisocyanate oligomers, Isocyanurates - CAS: 28182-81-2

EU - STEL: 1 mg/m3

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

EU - TWA(8h): 241 mg/m3, 50 ppm - STEL: 723 mg/m3, 150 ppm ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

Naphtha - hydrocarbons C9 aromatics

EU - TWA(8h): 100 mg/m3, 19 ppm

Xylene - CAS: 1330-20-7

Italy - TWA(8h): 221 mg/m3, 50 ppm - STEL(): 442 mg/m3, 100 ppm - Notes: Assorbito attraverso la pelle

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

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

2,6-di-tert-butyl-4-methylphenol - CAS: 128-37-0

ACGIH - TWA(8h): 2 mg/m3 - Notes: (IFV), A4 - URT irr

## **DNEL Exposure Limit Values**

Hexamethylene diisocyanate oligomers, Isocyanurates - 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 - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 480 mg/m³ - Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

## Naphtha - hydrocarbons C9 aromatics

Worker Professional: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 150 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 11 mg/m³ - Exposure: Human Oral - Frequency: Long Term, systemic effects Xylene - CAS: 1330-20-7

Worker Professional: 442 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 212 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, local effects

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

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contact with product.

Protection for hands:

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Worker Professional: 212 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal -
            Frequency: Long Term (repeated)
            Worker Professional: 221 mg/m3 - Consumer: 65.3 mg/m3 - Exposure: Human Inhalation -
            Frequency: Long Term (repeated)
            Consumer: 12.5 mg/kg/day - Exposure: Human Oral - Frequency: Long Term (repeated)
      2,6-di-tert-butyl-4-methylphenol - CAS: 128-37-0
            Worker Industry: 5.8 mg/m<sup>3</sup> - Consumer: 1.74 mg/m<sup>3</sup> - Exposure: Human Inhalation -
            Frequency: Long Term, systemic effects
            Worker Industry: 8.3 mg/kg - Consumer: 5 mg/kg - Exposure: Human Dermal - Frequency:
            Long Term, systemic effects
PNEC Exposure Limit Values
      Hexamethylene diisocyanate oligomers, Isocyanurates - CAS: 28182-81-2
            Target: Fresh Water - Value: 127 µg/L
            Target: Marine water - Value: 12.7 µg/L
            Target: Fresh water (intermittent emissions) - Value: 1270 µg/L
            Target: Freshwater sediments - Value: 266.7 g/kg
            Target: Soil - Value: 53.2 g/kg
            Target: STP - Value: 38.28 mg/l - Notes: OECD 209
      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: 0.01 mg/l
            Target: Intermittent emissions - Value: 0.36 mg/l
            Target: Freshwater sediments - Value: 0.98 mg/kg
            Target: Marine water sediments - Value: 0.09 mg/kg
            Target: Soil - Value: 0.09 mg/kg
      Xylene - CAS: 1330-20-7
            Target: Purification plant - Value: 6.58 mg/l
            Target: Marine water - Value: 0.32 mg/l
            Target: Intermittent emissions - Value: 0.32 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: 0.32 mg/l
      2,6-di-tert-butyl-4-methylphenol - CAS: 128-37-0
            Target: Intermittent emissions - Value: 0.004 mg/l
            Target: Fresh Water - Value: 0.004 mg/l
            Target: Soil - Value: 1.04 mg/kg
            Target: Purification plant - Value: 100 mg/l
            Target: Freshwater sediments - Value: 1.29 mg/kg
            Target: Secondary poisoning - Value: 16.7 mg/kg
            Target: Marine water - Value: 0.004 mg/l
Biological Exposure Index
      Xylene - CAS: 1330-20-7
            Value: 1.5 g/g - medium: Urine - Biological Indicator: Creatinine in urine - Sampling Period:
            End of turn
8.2. Exposure controls
Eye protection:
      Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).
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
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Use protective gloves that provides comprehensive protection, EN374 Class 3 (F-I). Permeation time > 60 minutes; 0.4 mm thickness.

## Respiratory protection:

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

## Appropriate engineering controls:

None

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid		
Colour:	N.A.		
Odour:	Typical of solvent		
Odour threshold:	N.D.		
Melting point/freezing point:	- 54°C		
Boiling point or initial boiling point and boiling range:	135°C - 145 °C		
Flammability:	Flam. Liq. 3, H226		
Lower and upper explosion limit:	0,7 - 7,0 % vol		
Flash point:	23 °C		
Auto-ignition temperature:	415°C		
Decomposition temperature:	N.D.		
pH:	N.A.		
Kinematic viscosity:	> 20,5 mm2/ sec (40 °C)		
Solubility in water:	Insoluble		

Solubility in oil:	N.D.		
Partition coefficient n-octanol/water (log value):			
Vapour pressure:	6,5 - 9,5 hPa		
Density and/or relative density:	0.986 g/cm <sup>3</sup>		
Relative vapour density:	4 (aria = 1)		
Particle characteristics:			
Particle size:	N.A.		

#### 9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	N.D.		
Evaporation rate:	N.D.		
Viscosity:	> 20,5 mm <sup>3</sup> /s		
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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid accumulating electrostatic charge.

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 hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:

N.A

Toxicological information of the main substances found in the product:

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Hexamethylene diisocyanate oligomers, Isocyanurates - CAS: 28182-81-2
a) acute toxicity:
      Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg
      Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
      Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
      Test: LC50 - Route: Inhalation Vapour - Species: Rat = 0.39 mg/kg - Duration: 4h
d) respiratory or skin sensitisation:
      Test: Skin Sensitization - Route: Skin Yes
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
Naphtha - hydrocarbons C9 aromatics
a) acute toxicity:
      Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m3 - Source: OECD 403
      Test: LD50 - Route: Oral - Species: Rat = 3492 mg/kg - Source: OECD 401
      Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg - Source: OECD 402
Xylene - CAS: 1330-20-7
a) acute toxicity:
      Test: LC50 - Route: Inhalation - Species: Rat = 6700 ppm - Duration: 4h
      Test: LD50 - Route: Oral - Species: Rat = 5627 mg/kg
      Test: LD50 - Route: Skin - Species: Rabbit > 5000 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
2,6-di-tert-butyl-4-methylphenol - CAS: 128-37-0
a) acute toxicity:
      Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
      Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
      Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h
Hexamethylene diisocyanate oligomers, Isocyanurates - CAS: 28182-81-2
      Local effects:
                                      High vapour concentrations may cause irritation to respiratory
                                      system.
      May cause slight skin irritation with prolonged or repeated contact.
                                      May cause eye irritation.
                                      Sensitization:
                                      Considered as skin sensitizing.
n-butyl acetate - CAS: 123-86-4
      Components of the product can be absorbed by the body by inhalation. Main symptoms:
      Dizziness, narcosis, Cough, nausea, vomiting, headache, unconsciousness, shortness of
      breath. Repeated exposure can cause skin dryness and cracking.
Naphtha - hydrocarbons C9 aromatics -
      Inhalation: Vapor concentrations above recommended exposure levels are irritating to the
      eyes and respiratory tract, may cause headaches and dizziness, are anesthetic and may
      cause other central nervous system effects. Contact with the skin: Low index of toxicity
      Frequent or prolonged contact can dry the skin favoring the onset of dermatitis. Eye Contact:
      May cause slight eye discomfort with mild irritation, but does not damage eye tissue.
      Ingestion: even small quantities of liquid introduced into the respiratory system during
      ingestion or by vomiting, can cause bronchopneumonia or pulmonary edema. minimal index
      of toxicity.
Xylene - CAS: 1330-20-7
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Inhalation: Harmful if inhaled. Very high concentrations of xylene lead to the progressive inhibition of the central nervous system (CNS),

followed by coma, respiratory weakness, and finally absence of cerebral blood flow and death. High concentrations cause coma and respiratory weakening, destabilize the function of the kidneys and lead to liver damage. At low concentrations, irritation of the eyes, nasopharynx, illness, irritation, slow reaction times and reduced short-term memory occur. Vapors of xylene can cause dizziness, headache, nausea, mental confusion. Ingestion: In the event of ingestion of xylene, the injured person has a burning sensation and stomach ache, in case of aspiration there is a danger of chemical pneumonitis and pulmonary edema. Skin Contact: May be harmful if absorbed through the skin. Causes skin irritation. Contact with eyes: Vapors of xylene and xylene in liquid form irritate the eyes and membranes.

If not differently specified, the information required in Regulation (EU)2020/878 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.
- 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

# **SECTION 12: Ecological information**

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

Hexamethylene diisocyanate oligomers, Isocyanurates - CAS: 28182-81-2

a) Aquatic acute toxicity:

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Endpoint: LC50 - Species: Fish = 8.9 mg/l
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Endpoint: LC50 - Species: Daphnia = 127 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 1000 mg/l

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

a) Aquatic acute toxicity:

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

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

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

Naphtha - hydrocarbons C9 aromatics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 1 mg/l - Duration h: 72 - Notes: NOELR

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73

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

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504

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Endpoint: NOEC - Species: Fish = 1.3 mg/l - Duration h: 1344

2,6-di-tert-butyl-4-methylphenol - CAS: 128-37-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 0.61 mg/l

Endpoint: EC50 - Species: Algae > 0.42 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish > 0.57 mg/l - Duration h: 96 Endpoint: NOEC - Species: Daphnia = 0.31 mg/l - Duration h: 21

12.2. Persistence and degradability

Non-readily biodegradable

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. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

## **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. DO NOT discharge into sewers, watercourses, ponds, canals or ditches. Empty product containers must be completely drained and stored safely until appropriately processes or disposed. Empty containers must be recycled, recovered or disposed of by a qualified and authorized company operating in compliance with current recycling, recovery and disposal regulations. It is advisable to provide the desposal company with all safety information of the material contained in the empty packaging. DO NOT pressurize, DO NOT cut, DO NOT weld, DO NOT puncture, DO NOT crush, DO NOT expose empty containers to heat, flames, sparks, electrostatic discharge or other sources of ignition.

## **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 or ID number

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

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IMDG-Shipping Name:	PAINT
14.3. Transport hazard class(es)	
ADR-Class:	3
ADR-Label:	3
ADR - Hazard identification nur	mber: 30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
IMDG-Class:	3
14.4. Packing group	
ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
14.5. Environmental hazards	
ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No
IMDG-EmS:	F-E , S-E
14.6. Special precautions for user	, – , – –
ADR-Subsidiary hazards:	_
ADR-S.P.:	163 367 650
ADR-Transport category (Tunn	
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-Page:	3372
IMDG-Subsidiary hazards:	-
IMDG-MFAG:	310,313
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-
14.7. Maritime transport in bulk accor	ding to IMO instruments
N.A.	
13.7 %	

#### **SECTION 15: Regulatory information**

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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) n. 2020/878
     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)
     Regulation (EU) n. 2016/918 (ATP 8 CLP)
      Regulation (EU) n. 2016/1179 (ATP 9 CLP)
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Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

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Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP)

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 20 Restriction 30 Restriction 74 Restriction 75

Volatile Organic compounds - VOCs =557.40 g/Kg= 549.60 g/l

Volatile CMR substances = 0.04 %

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

Organic Carbon - C = 0.37 Dry weight (% wt):44.26

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

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

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

#### **SECTION 16: Other information**

Full text of phrases referred to in Section 3:

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

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

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

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

EUH014 Reacts violently with water.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1,1A,1B	3.4.1/1-1A-1B	Respiratory Sensitisation, Category 1,1A,1B
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

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

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.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

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.

N.A.: Not available N.D.: Not determined.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods

by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average

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