

SDS P4000 pages 2-17

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SDS P7000 pages 36-54

according to Regulation (EC) No. 1907/2006



P4000

Version 1.0 MSDS Number: H51230 Revision Date: 13.03.2015

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

1.1 Product identifier

Trade name : P4000

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

Use of the Sub-

stance/Mixture

: Curing chemical

Recommended restrictions

: For use in industrial installations or professional treatment only.

on use or

1.3 Details of the supplier of the safety data sheet

Company : Roberlo s.a.

Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva

Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person responsible for the SDS

: msds@roberlo.com

1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Skin irritation, Category 2 H315: Causes skin irritation.

Specific target organ toxicity - single ex-

posure, Category 3

H336: May cause drowsiness or dizziness.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.

Harmful R20: Harmful by inhalation.

Harmful R65: Harmful: may cause lung damage if swal-

lowed.

Irritant R38: Irritating to skin.

R67: Vapours may cause drowsiness and dizzi-

ness.

R43: May cause sensitisation by skin contact.

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic environ-

ment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters air-

ways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness. H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P210 Keep away from heat/sparks/open

flames/hot surfaces. - No smoking.

P260 Do not breathe vapours. P260 Do not breathe spray.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER or doctor/ physician.

according to Regulation (EC) No. 1907/2006



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P331 Do NOT induce vomiting.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

Storage:

P403 **Disposal:**

Store in a well-ventilated place.

P501 Dispose of contents/ container to an ap-

proved waste disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate

Solvent naphtha (petroleum), light arom.

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Paint

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
HDI oligomers, isocyanurate	28182-81-2 500-060-2 01- 2119485796-17	Xn-Xi; R20-R37- R43	Acute Tox.4; H332 Skin Sens.1; H317 STOT SE3; H335	>= 30 - < 50
Solvent naphtha (petro- leum), light arom.	64742-95-6 265-199-0 01- 2119455851-35	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67	Flam. Liq.3; H226 Asp. Tox.1; H304 STOT SE3; H335, H336 Aquatic Chronic2; H411	>= 20 - < 30
2-methoxy-1- methylethyl acetate	108-65-6 203-603-9	R10	Flam. Liq.3; H226	>= 20 - <= 30

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	01- 2119475791-29			
xylene (mixture of isomers)	1330-20-7 215-535-7 01- 2119488216-32	R10 Xn; R20/21 Xi; R38	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 5 - < 10
n-butyl acetate	123-86-4 204-658-1 01- 2119485493-29	R10 R66 R67	Flam. Liq.3; H226 STOT SE3; H336	>= 1 - < 10
ethylbenzene	100-41-4 202-849-4	F; R11 Xn; R20	Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Asp. Tox.1; H304	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

according to Regulation (EC) No. 1907/2006



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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

> Headache Vertigo Fatigue

Skin contact may provoke the following symptoms:

Ingestion may provoke the following symptoms:

Abdominal pain

Vomitina Diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : In case of ingestion, the stomach should be emptied by gastric

lavage under qualified medical supervision.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information : For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation.

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6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against

fire and explosion

: Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of

electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: No smoking. Keep in a well-ventilated place.

Storage period : 12 Months

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the use of this product do not exist particular recommen-

dations apart from that already indicated.

according to Regulation (EC) No. 1907/2006



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Low boiling point naphtha -

unspecified

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 608 mg/m3

2-methoxy-1-methylethyl ace-

tate

: End Use: Workers

Exposure routes: Inhalation
Potential health effects: Long-term systemic effects

Value: 275 mg/m3

xylene : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m3

n-butyl acetate : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 480 mg/m3

ethylbenzene : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m3

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Remarks : Solvent-resistant gloves The selected protective gloves have

to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves

clean them with soap and water.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

according to Regulation (EC) No. 1907/2006



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Colour : colourless

Odour : characteristic

Melting point/range : Not applicable

Boiling point/boiling range : 126.3 °C

(7.6 hPa)

Flash point : 35 °C

Method: ISO 1523, closed cup

Setaflash

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 7.8 hPa (20 °C)

52 hPa (50 °C)

Density : 0.990 g/cm3 (20 °C)

Method: ISO 2811-1

Solubility(ies)

Water solubility : immiscible

Viscosity

Viscosity, dynamic : 22 mPa.s (20 °C)

Method: ISO 2555

Viscosity, kinematic : < 20.5 mm2/s (40 °C)

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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Hazardous reactions : No decomposition if used as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Isocyanates

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : 10 - 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:

HDI oligomers, isocyanurate:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.543 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 Oral (Rat): 3,592 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

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Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg

Method: OECD Test Guideline 402

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 8,532 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 35.7 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): 5,000 mg/kg

Method: OECD Test Guideline 402

xylene (mixture of isomers):

Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 22.08 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg

Method: Converted acute toxicity point estimate

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg

Method: OECD Test Guideline 402

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 17.4 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 15,400 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Classification: Irritating to skin.

according to Regulation (EC) No. 1907/2006



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Serious eye damage/eye irritation

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As-

sessment

: Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

Further information

Product:

according to Regulation (EC) No. 1907/2006



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Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

HDI oligomers, isocyanurate:

Toxicity to algae : EC50 (Algae): 370 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Solvent naphtha (petroleum), light arom.:

Toxicity to fish : LC50 (Fish): 9.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 3.2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

: EC50 (Algae): 2.9 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Fish): 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 408 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

: EC50 (Algae): 1,000 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

xylene (mixture of isomers):

Toxicity to fish : LC50 (Fish): 14 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 16 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

n-butyl acetate:

: LC50 (Fish): 18 mg/l Toxicity to fish

Exposure time: 96 h

according to Regulation (EC) No. 1907/2006



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Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 32 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 675 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

ethylbenzene:

Toxicity to fish : LC50 (Fish): 12 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 1.8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 33 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological infor- : There is no data available for this product.

according to Regulation (EC) No. 1907/2006



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mation

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

 ADR
 : UN 1263

 IMDG
 : UN 1263

 IATA
 : UN 1263

14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL IMDG : PAINT RELATED MATERIAL

IATA : Paint related material

14.3 Transport hazard class(es)

 ADR
 : 3

 IMDG
 : 3

 IATA
 : 3

14.4 Packing group

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III

Labels : 3

EmS Code : F-E, <u>S-E</u>

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IATA

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

: 366

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c	FLAMMABLE LIQUIDS	Quantity 1 5,000 t	Quantity 2 50,000 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2,500 t	25,000 t
Other regulations	. The product is classified and	lahelled in accord	dance with EC

Other regulations : The product is classified and labelled in accordance with EC

directives or respective national laws.

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

R10 Flammable. R11 Highly flammable.

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R20	Harmful by inhalation.					
R20/21	Harmful by inhalation and in contact w	ith skin.				
R37	Irritating to respiratory system.					
R38	Irritating to skin.					
R43	May cause sensitisation by skin contact.					
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.					
R65	Harmful: may cause lung damage if sw	vallowed.				
R66	Repeated exposure may cause skin dryness or cracking.					
R67	Vapours may cause drowsiness and d	izziness.				

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure
	if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

according to Regulation (EC) No. 1907/2006



P6000

Version 1.0 MSDS Number: H51231 Revision Date: 13.05.2015

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

1.1 Product identifier

Trade name : P6000

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

Use of the Sub-

stance/Mixture

: Curing chemical

Recommended restrictions

: For use in industrial installations or professional treatment only.

on use or

1.3 Details of the supplier of the safety data sheet

Company : Roberlo s.a.

Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva

Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person responsible for the SDS

: msds@roberlo.com

1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

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Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.

Harmful R21: Harmful in contact with skin.

R66: Repeated exposure may cause skin dryness

or cracking.

Harmful R20: Harmful by inhalation.

Irritant R37: Irritating to respiratory system.

R43: May cause sensitisation by skin contact.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters air-

ways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through pro-

longed or repeated exposure.

Precautionary statements : **Prevention:**

P210 Keep away from heat/sparks/open

flames/hot surfaces. - No smoking.

P260 Do not breathe vapours. P260 Do not breathe spray.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

according to Regulation (EC) No. 1907/2006



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POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an ap-

proved waste disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate

xylene (mixture of isomers)

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Paint

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
HDI oligomers, isocyanurate	28182-81-2 500-060-2 01- 2119485796-17	Xn-Xi; R20-R37- R43	Acute Tox.4; H332 Skin Sens.1; H317 STOT SE3; H335	>= 30 - < 50
n-butyl acetate	123-86-4 204-658-1 01- 2119485493-29	R10 R66 R67	Flam. Liq.3; H226 STOT SE3; H336	>= 30 - < 50
xylene (mixture of isomers)	1330-20-7 215-535-7	R10 Xn; R20/21	Flam. Liq.3; H226 Acute Tox.4; H332	>= 12.5 - < 20

according to Regulation (EC) No. 1907/2006



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	01- 2119488216-32	Xi; R38	Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	
ethylbenzene	100-41-4 202-849-4	F; R11 Xn; R20	Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Asp. Tox.1; H304	>= 1 - < 10
Solvent naphtha (petro-leum), light arom.	64742-95-6 265-199-0 01- 2119455851-35	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67	Flam. Liq.3; H226 Asp. Tox.1; H304 Skin Irrit.2; H315 STOT SE3; H336 Aquatic Chronic2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

Headache Vertigo Fatigue

according to Regulation (EC) No. 1907/2006



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Skin contact may provoke the following symptoms:

Redness

Ingestion may provoke the following symptoms:

Abdominal pain Vomiting Diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : In case of ingestion, the stomach should be emptied by gastric

lavage under qualified medical supervision.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information : For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

according to Regulation (EC) No. 1907/2006



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

Avoid contact with skin and eyes. For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against

fire and explosion

: Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of

electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: No smoking. Keep in a well-ventilated place.

Storage period : 12 Months

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the use of this product do not exist particular recommen-

dations apart from that already indicated.

according to Regulation (EC) No. 1907/2006



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
HDI oligomers,	28182-81-2	TWA	0.02 mg/m3	GB EH40		
isocyanurate	20102 01 2	1 ***	(as -NCO)	OB EITHO		
Further information	Substances th	nat can cause occup	ational asthma (also known a	as asthmagens		
			duce a state of specific airwa			
			ical, irritant or other mechani			
			onsive, further exposure to th			
	sometimes ev	en to tiny quantities,	may cause respiratory symp	otoms. These		
			om a runny nose to asthma.			
			ill become hyper-responsive			
			se who are likely to become			
			an cause occupational asthn ich may trigger the symptom			
			per-responsiveness, but whi			
			e latter substances are not cl			
			sers., Wherever it is reasonal			
	exposure to s	ubstances that can o	ause occupational asthma s	hould be pre-		
			, the primary aim is to apply			
			rkers from becoming hyper-r			
			ational asthma, COSHH requ			
			onably practicable. Activities			
	short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all					
	employees exposed or liable to be exposed to a substance which may cause					
	occupational asthma and there should be appropriate consultation with an					
	occupational health professional over the degree of risk and level of surveil-					
		lance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation				
			use sensitisation by inhalation			
		contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as				
			other substance which the ris			
			of occupational asthma., Th			
			ned only to those substance			
		tional asthma.	,	,		
HDI oligomers,	28182-81-2	STEL	0.07 mg/m3	GB EH40		
isocyanurate			(as -NCO)			
Further information			ational asthma (also known a			
			duce a state of specific airwa			
	responsiveness via an immunological, irritant or other mechanism. Once the					
	airways have become hyper-responsive, further exposure to the substance,					
	sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers					
	who are exposed to a sensitiser will become hyper-responsive and it is im-					
			se who are likely to become			

according to Regulation (EC) No. 1907/2006



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	distinguished people with proclude the dise asthmagens of exposure to silvented. Where standards of control of substances the sure be reducted short-term permanagement employees expoccupational of a compational from the season of the substance of the sure be reducted by inhalation; contact or a contact or assessments updated from the season of the substance of	from substances while-existing airway hy ase themselves. The or respiratory sensitis ubstances that can de this is not possible control to prevent wo at can cause occupated as low as is reasonable concentrations shis being considered, posed or liable to be asthma and there ship ealth professional of le of causing occupated: - are assigned the or 'R42/43: May cause listed in section Coff the evidence for a time to time, or any obe a potential cause 'ELs has been assigned.	an cause occupational asthmich may trigger the symptoms per-responsiveness, but whice latter substances are not classes. Wherever it is reasonable ause occupational asthma slasses occupational asthma slasses from becoming hyper-reational asthma, COSHH requestional asthma, COSHH requestional asthma, COSHH requestional asthma, COSHH requestional practicable. Activities could receive particular attent Health surveillance is appropriate consultativer the degree of risk and level the consultational asthma. The identified me risk phrase 'R42: May cause sensitisation by inhalation of HSE publication 'Asthmatigents implicated in occupation other substance which the risk of occupational asthma., The ned only to those substances	s of asthma in the do not in- cassified oly practicable, hould be pre- adequate esponsive. For ires that expo- giving rise to ion when risk oriate for all ch may cause tion with an ovel of surveil- substances se sensitisation in and skin gen? Critical onal asthma' as ick assessment e 'Sen' notation
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
n-butyl acetate	123-86-4	STEL	200 ppm 966 mg/m3	GB EH40
xylene (mixture of isomers)	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
xylene (mixture of isomers)	1330-20-7	STEL	100 ppm 441 mg/m3	GB EH40
Further information			e assigned substances are the sorption will lead to systemic	
xylene (mixture of	1330-20-7	TWA	50 ppm	2000/39/EC
isomers)			221 mg/m3	
Further information			ant uptake through the skin, l	
xylene (mixture of isomers)	1330-20-7	STEL	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the r	ossibility of significa	ant uptake through the skin, l	ndicative
ethylbenzene	100-41-4	TWA	100 ppm	2000/39/EC
			442 mg/m3	
Further information			ant uptake through the skin, l	
ethylbenzene	100-41-4	STEL	200 ppm 884 mg/m3	2000/39/EC
Further information	Identifies the	ossibility of significa	ant uptake through the skin, l	ndicative
ethylbenzene	100-41-4	TWA	100 ppm 441 mg/m3	GB EH40
Further information			le assigned substances are the sorption will lead to systemic	
			· · · · · · · · · · · · · · · · · · ·	•

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ethylbenzene	100-41-4	STEL	125 ppm	GB EH40
			552 mg/m3	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are concerns that dermal absorption will lead to systemic toxicity.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

n-butyl acetate : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 480 mg/m3

xylene : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m3

ethylbenzene : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m3 : End Use: Workers

Low boiling point naphtha -

unspecified

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 608 mg/m3

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Remarks : Solvent-resistant gloves The selected protective gloves have

to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves

clean them with soap and water.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

according to Regulation (EC) No. 1907/2006



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pH : Not applicable

Melting point/range : Not applicable

Boiling point/boiling range : 126.3 °C

(7.6 hPa)

Flash point : 28 °C

Method: ISO 1523, closed cup

Setaflash

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 7.8 hPa (20 °C)

52 hPa (50 °C)

Density : 0.970 g/cm3 (20 °C)

Method: ISO 2811-1

Solubility(ies)

Water solubility : immiscible

Viscosity

Viscosity, dynamic : 20 mPa.s (20 °C)

Method: ISO 2555

Viscosity, kinematic : < 20 mm2/s (40 °C)

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if used as directed.

according to Regulation (EC) No. 1907/2006



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Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Isocyanates

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : 18.42 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:

HDI oligomers, isocyanurate:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.543 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

according to Regulation (EC) No. 1907/2006



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Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg

Method: OECD Test Guideline 402

xylene (mixture of isomers):

Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 22.08 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg

Method: Converted acute toxicity point estimate

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 17.4 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 15,400 mg/kg

Method: OECD Test Guideline 402

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 Oral (Rat): 3,592 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

according to Regulation (EC) No. 1907/2006



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Germ cell mutagenicity

Product:

Germ cell mutagenicity- As-

sessment

: Contains no ingredient listed as a mutagen

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: Contains no ingredient listed as a carcinogen

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Contains no ingredient listed as toxic to reproduction

STOT - single exposure

Product:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single ex-

posure, category 3 with narcotic effects.

STOT - repeated exposure

Product:

Exposure routes: Skin contact

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeat-

ed exposure.

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

according to Regulation (EC) No. 1907/2006



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HDI oligomers, isocyanurate:

Toxicity to algae : EC50 (Algae): 370 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

n-butyl acetate:

Toxicity to fish : LC50 (Fish): 18 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 32 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 675 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

xylene (mixture of isomers):

Toxicity to fish : LC50 (Fish): 14 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 16 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

ethylbenzene:

Toxicity to fish : LC50 (Fish): 12 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 1.8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 33 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Solvent naphtha (petroleum), light arom.:

Toxicity to fish : LC50 (Fish): 9.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 3.2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 2.9 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

according to Regulation (EC) No. 1907/2006



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12.2 Persistence and degradability

Product:

: Remarks: No data available Biodegradability

12.3 Bioaccumulative potential

Product:

: Remarks: No data available Bioaccumulation

12.4 Mobility in soil

Product:

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Product:

mation

Additional ecological infor: : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

: Empty remaining contents. Contaminated packaging

> Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

according to Regulation (EC) No. 1907/2006



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SECTION 14: Transport information

14.1 UN number

ADR : UN 1263 IMDG : UN 1263 IATA : UN 1263

14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL IMDG : PAINT RELATED MATERIAL

IATA : Paint related material

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

according to Regulation (EC) No. 1907/2006



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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

6	Flammable.	Quantity 1 5,000 t	Quantity 2 50,000 t
13	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2,500 t	25,000 t

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

Flammable.
Highly flammable.
Harmful by inhalation.
Harmful by inhalation and in contact with skin.
Irritating to respiratory system.
Irritating to skin.
May cause sensitisation by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

according to Regulation (EC) No. 1907/2006



P6000

Version 1.0	MSDS Number: H51231	Revision Date: 13.05.2015
H373	May cause damage to organs through prolonged or repeated exposure	
H411	if inhaled. Toxic to aquatic life with long lasting effects.	

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

according to Regulation (EC) No. 1907/2006



P7000

Version 1.0 MSDS Number: H51232 Revision Date: 13.03.2015

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

1.1 Product identifier

Trade name : P7000

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

Use of the Sub-

stance/Mixture

: Curing chemical

Recommended restrictions

on use

: For use in industrial installations or professional treatment

only.

1.3 Details of the supplier of the safety data sheet

Company : Roberlo s.a.

Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva

Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person responsible for the SDS

: msds@roberlo.com

1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the un-

born child if inhaled.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure if inhaled.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

according to Regulation (EC) No. 1907/2006



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Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3

H336: May cause drowsiness or dizziness.

Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

Toxic to Reproduction Category 3 R63: Possible risk of harm to the unborn child.

Harmful R20: Harmful by inhalation.

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

R65: Harmful: may cause lung damage if swal-

lowed.

Irritant R36/38: Irritating to eyes and skin.

R67: Vapours may cause drowsiness and dizzi-

ness.

R43: May cause sensitisation by skin contact.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H361 Suspected of damaging fertility or the un-

born child if inhaled.

H373 May cause damage to organs through pro-

longed or repeated exposure if inhaled.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters air-

ways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness. H317 May cause an allergic skin reaction.

according to Regulation (EC) No. 1907/2006



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Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P260 Do not breathe vapours. P260 Do not breathe spray.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an ap-

proved waste disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate

toluene

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Paint

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
HDI oligomers,	28182-81-2	Xn-Xi; R20-R37-	Acute Tox.4; H332	>= 30 - < 50
isocyanurate	500-060-2	R43	Skin Sens.1; H317	

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	01- 2119485796-17		STOT SE3; H335	
toluene	108-88-3 203-625-9 01- 2119471310-51	F; R11 Repr.Cat.3; R63 Xn; R48/20-R65 Xi; R38 R67	Flam. Liq.2; H225 Skin Irrit.2; H315 Repr.2; H361 STOT SE3; H336 STOT RE2; H373 Asp. Tox.1; H304	>= 20 - < 30
n-butyl acetate	123-86-4 204-658-1 01- 2119485493-29	R10 R66 R67	Flam. Liq.3; H226 STOT SE3; H336	>= 10 - < 15
ethyl acetate	141-78-6 205-500-4 01- 2119475103-46	F; R11 Xi; R36 R66 R67	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 10 - < 15
xylene (mixture of isomers)	1330-20-7 215-535-7 01- 2119488216-32	R10 Xn; R20/21 Xi; R38	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 3 - < 5
Solvent naphtha (petro-leum), light arom.	64742-95-6 265-199-0 01- 2119455851-35	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67	Flam. Liq.3; H226 Asp. Tox.1; H304 STOT SE3; H335, H336 Aquatic Chronic2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.

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> Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If eve irritation persists, consult a specialist,

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

> Headache Vertigo Fatigue

Skin contact may provoke the following symptoms:

Redness

Ingestion may provoke the following symptoms:

Abdominal pain

Vomiting Diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed

: In case of ingestion, the stomach should be emptied by gastric **Treatment**

lavage under qualified medical supervision.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

ucts

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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according to Regulation (EC) No. 1907/2006



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Further information : Use water spray to cool unopened containers.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

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

/ national regulations (see section 13).

6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding of the given occupational exposure limits

(see section 8).

Avoid contact with skin and eyes. For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

Container may be opened only under exhaust ventilation

hood.

according to Regulation (EC) No. 1907/2006



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Advice on protection against

fire and explosion

: Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of

electrostatic charge.

: Handle in accordance with good industrial hygiene and safety Hygiene measures

practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: No smoking. Store in cool place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological

safety standards.

Storage period : 12 Months

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the use of this product do not exist particular recommen-

dations apart from that already indicated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
HDI oligomers, isocyanurate	28182-81-2	TWA	0.02 mg/m3 (as -NCO)	GB EH40
Further information	and respirator responsivenes airways have sometimes ev symptoms car who are expospossible to ide responsive. 5 distinguished people with proclude the dise asthmagens of exposure to silvented. Where	y sensitisers) can incess via an immunolog become hyper-response to tiny quantities, a range in severity frest to a sensitiser wentify in advance thou 4 Substances that confrom substances where-existing airway hy ase themselves. The or respiratory sensitisubstances that can dethis is not possible	ational asthma (also known a duce a state of specific airwa ical, irritant or other mechani onsive, further exposure to the may cause respiratory symp om a runny nose to asthma. ill become hyper-responsive se who are likely to become an cause occupational asthma ich may trigger the symptoms per-responsiveness, but whice elatter substances are not clause. Wherever it is reasonal cause occupational asthma is the primary aim is to apply a rkers from becoming hyper-responsiveness.	y hyper- sm. Once the e substance, btoms. These Not all workers and it is im- hyper- ha should be s of asthma in ch do not in- assified bly practicable, hould be pre- adequate

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	sure be reduce short-term per management employees ex occupational a occupational lance., Capabare those which by inhalation'; contact' or - a assessments updated from has shown to in the list of W	ted as low as is reastak concentrations so ak concentrations so is being considered to be asthmation and there so the alth professional of the evidence for time to time, or any be a potential caustion and the evidence for the evidence for the evidence for the appotential caustion and the evidence for the evidence for the evidence for the evidence for the apotential caustions.	pational asthma, COSHH requestional practicable. Activities should receive particular atter and the least over the degree of risk and least on the risk phrase 'R42: May cause sensitisation by inhalation of HSE publication 'Asthmagents implicated in occupate of occupational asthma. The identifies the risk phrase 'R42: May cause sensitisation by inhalation of HSE publication 'Asthmagents implicated in occupate other substance which the results of occupational asthma.	s giving rise to atton when risk opriate for all hich may cause atton with an evel of surveiled substances use sensitisation on and skin agen? Critical itional asthma' as isk assessment he 'Sen' notation
HDI oligomers,	28182-81-2	STEL	0.07 mg/m3	GB EH40
isocyanurate	20102 01 2	0.22	(as -NCO)	00 21110
Further information	and respirator responsivener airways have sometimes ever symptoms can who are exported people with peo	ry sensitisers) can in service an immunolouse become hyper-respondent to tiny quantities on range in severity for sed to a sensitiser of the sensity in advance the sensity in advance the sensity in advances that from substances where-existing airway he see themselves. The respiratory sensity ubstances that can the this is not possible control to prevent where the sensity considered as low as is reasonable of causing occupants or 'R42/43: May cause listed in section of the evidence for time to time, or any be a potential cause of the sensity	pational asthma (also known aduce a state of specific airwigical, irritant or other mecharonsive, further exposure to the second of the second	ay hyper- nism. Once the he substance, ptoms. These Not all workers and it is im- hyper- ma should be ns of asthma in hich do not in- classified ably practicable, should be pre- adequate responsive. For uires that expo- sigiving rise to ntion when risk priate for all hich may cause ation with an evel of surveil- d substances use sensitisation on and skin agen? Critical cional asthma' as isk assessment he 'Sen' notation es which may
toluene	108-88-3	TWA	50 ppm 192 mg/m3	2006/15/EC
Further information	Identifies the	possibility of signific	ant uptake through the skin,	Indicative

according to Regulation (EC) No. 1907/2006



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toluene	108-88-3	STEL	100 ppm	2006/15/EC
	1.1 (16)		384 mg/m3	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
toluene	108-88-3	TWA	50 ppm 191 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
toluene	108-88-3	STEL	100 ppm 384 mg/m3	GB EH40
Further information	Can be absor	bed through skin. Th	e assigned substances are tl	hose for which
	there are cond	cerns that dermal ab	sorption will lead to systemic	toxicity.
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
n-butyl acetate	123-86-4	STEL	200 ppm 966 mg/m3	GB EH40
ethyl acetate	141-78-6	TWA	200 ppm	GB EH40
ethyl acetate	141-78-6	STEL	400 ppm	GB EH40
xylene (mixture of isomers)	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
Further information	Can be absor	bed through skin. Th	e assigned substances are tl	hose for which
	there are concerns that dermal absorption will lead to systemic toxicity.			
xylene (mixture of isomers)	1330-20-7	STEL	100 ppm 441 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which			hose for which
			sorption will lead to systemic	
xylene (mixture of	1330-20-7	TWA	50 ppm	2000/39/EC
isomers)			221 mg/m3	
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
xylene (mixture of	1330-20-7	STEL	100 ppm	2000/39/EC
isomers)			442 mg/m3	
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
	28182-81-2	urinary diamine: 1µmol/mol creatinine (Urine)	Post task	GB EH40 BAT
	1330-20-7	methyl hippuric acid: 650mmol/mol creatinine (Urine)	Post shift	GB EH40 BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

toluene : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 147 mg/m3

n-butyl acetate : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 480 mg/m3

according to Regulation (EC) No. 1907/2006



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ethyl acetate : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 734 mg/m3 : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m3

Low boiling point naphtha -

unspecified

xylene

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 608 mg/m3

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Remarks : Solvent-resistant gloves The selected protective gloves have

to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves

clean them with soap and water.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

pH : not applicable

Melting point/range : not applicable

Boiling point/boiling range : 77.1 °C

(7.6 hPa)

Flash point : 7 °C

Method: ISO 1523, closed cup

according to Regulation (EC) No. 1907/2006



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Setaflash

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 30.5 hPa (20 °C)

164 hPa (50 °C)

Density : 0.975 g/cm3 (20 °C)

Method: ISO 2811-1

Solubility(ies)

Water solubility : immiscible

Viscosity

Viscosity, dynamic : 20 mPa.s (20 °C)

Method: ISO 2555

Viscosity, kinematic : < 20 mm2/s (40 °C)

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if used as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

according to Regulation (EC) No. 1907/2006



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Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Isocyanates

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : 10 - 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:

HDI oligomers, isocyanurate:

Acute oral toxicity : LD50 Oral (rat): > 2,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (rat): > 0.543 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

toluene:

Acute inhalation toxicity : LC50 (rat): 28.1 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

n-butyl acetate:

Acute oral toxicity : LD50 Oral (rat): 10,768 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (rat): 23.4 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (rabbit): 17,600 mg/kg

Method: OECD Test Guideline 402

ethyl acetate:

according to Regulation (EC) No. 1907/2006



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: LD50 Oral (rat): 5,620 mg/kg Acute oral toxicity

Method: OECD Test Guideline 401

: LC50 (rat): 44 mg/l Acute inhalation toxicity

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (rabbit): 18,000 mg/kg

Method: OECD Test Guideline 402

xylene (mixture of isomers):

Acute oral toxicity : LD50 Oral (rat): 4,300 mg/kg

Method: OECD Test Guideline 401

: LC50 (rat): 22.08 mg/l Acute inhalation toxicity

Exposure time: 4 h

Method: OECD Test Guideline 403

: Acute toxicity estimate : 1,100 mg/kg Acute dermal toxicity

Method: Converted acute toxicity point estimate

Solvent naphtha (petroleum), light arom.:

: LD50 Oral (rat): 3,592 mg/kg Acute oral toxicity

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (rat): > 20 mg/l

Exposure time: 4 h

: LD50 (rabbit): 3,160 mg/kg Acute dermal toxicity

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: Severe eye irritation

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As-

: Based on available data, the classification criteria are not met.

sessment

according to Regulation (EC) No. 1907/2006



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Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

HDI oligomers, isocyanurate:

Toxicity to algae : EC50 (Algae): 370 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

n-butyl acetate:

Toxicity to fish : LC50 (Fish): 18 mg/l

according to Regulation (EC) No. 1907/2006



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Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia): 32 mg/l Exposure time: 48 h

Method: OECD Test Guideline 202

: EC50 (Algae): 675 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

ethyl acetate:

Toxicity to fish : LC50 (Fish): 212 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia): 164 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

: EC50 (Algae): > 100 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

xylene (mixture of isomers):

Toxicity to fish LC50 (Fish): 14 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia): 16 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Solvent naphtha (petroleum), light arom.:

: LC50 (Fish): 9.2 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia): 3.2 mg/l Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 2.9 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

according to Regulation (EC) No. 1907/2006



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12.3 Bioaccumulative potential

Product:

: Remarks: No data available Bioaccumulation

12.4 Mobility in soil

Product:

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

: This substance/mixture contains no components considered Assessment

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Product:

mation

Additional ecological infor- : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR : UN 1263 **IMDG** : UN 1263 **IATA** : UN 1263

14.2 UN proper shipping name

according to Regulation (EC) No. 1907/2006



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ADR : PAINT RELATED MATERIAL IMDG : PAINT RELATED MATERIAL

IATA : Paint related material

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of ma-

jor-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS 5,000 t Quantity 1 Quantity 2

according to Regulation (EC) No. 1907/2006



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34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2,500 t	25,000 t

15.2 Chemical Safety Assessment

not applicable

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure
	through inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225 Highly flammable liquid and vapour.	
H226 Flammable liquid and vapour.	
H304 May be fatal if swallowed and enters airways.	
H312 Harmful in contact with skin.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H319 Causes serious eye irritation.	
H332 Harmful if inhaled.	
H335 May cause respiratory irritation.	
H336 May cause drowsiness or dizziness.	
H361 Suspected of damaging fertility or the unborn ch	ild if inhaled.
H373 May cause damage to organs through prolonged	d or repeated exposure
if inhaled.	
H411 Toxic to aquatic life with long lasting effects.	

Further information

according to Regulation (EC) No. 1907/2006



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.