

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB**

Regulation (EU) n. 2020/878

Safety Data Sheet date: 6/1/2025, version 3**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: LBYH 142 PB
SDS code: 103177EU
UFI: 9NJP-4AYA-FK92-5YU4

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

Recommended use:

Industrial uses
Paint/Coating

1.3. Details of the supplier of the safety data sheet**Manufacturers:**

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France
-Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

Distributors:

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France
-Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

Competent person responsible for the safety data sheet:

msdsinformation-eu@socomore.com

1.4. Emergency telephone number

France : ORFILA (INRS) +33 (0)1 45 42 59 59

International : CHEMTEL +1-813-248-0585.

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, Acute Tox. 4, Harmful if inhaled.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P370+P378 In case of fire: Use dry sand, chemical powder or alcohol-resistant foam for extinction.

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

Special Provisions:

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH208 Contains 4-isocyanatosulphonyltoluene; tosyl isocyanate. May produce an allergic reaction.

Contains

homopolymère 1-6-diisocyanated'hexaméthylène

Benzene, 1,3-diisocyanatomethyl-, polymer with 1,6-diisocyanatohexane, polyethylene glycol mono-Me ether-blocked

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 $\geq 0.1\%$


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
$\geq 70\%$ - $< 80\%$	homopolymère 1-6-diisocyanated'hexaméth	CAS: 28182-81-2	 3.1/4/Inhal Acute Tox. 4 H332

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

	ylène	EC: REACH No.:	500-060-2 01- 2119485796 -17	<p>⚠ 3.4.2/1 Skin Sens. 1 H317</p> <p>⚠ 3.8/3 STOT SE 3 H335</p> <p>Acute Toxicity Estimate: ATE - Inhalation (Dust/mist) 1,5 mg/l</p>
>= 7% - < 10%	2-methoxy-1-methylethyl acetate	Index number: CAS: EC: REACH No.:	607-195-00-7 108-65-6 203-603-9 01- 2119475791 -29	<p>⚠ 2.6/3 Flam. Liq. 3 H226</p> <p>⚠ 3.8/3 STOT SE 3 H336</p> <p>EUH066</p>
>= 7% - < 10%	Benzene, 1,3-diisocyanatomethyl-, polymer with 1,6-diisocyanatohexane, polyethylene glycol mono-Me ether-blocked	EC:	948-808-0	<p>⚠ 3.1/4/Inhal Acute Tox. 4 H332</p> <p>⚠ 3.4.2/1 Skin Sens. 1 H317</p> <p>⚠ 3.8/3 STOT SE 3 H335</p> <p>4.1/C3 Aquatic Chronic 3 H412</p>
>= 0.1% - < 0.25%	4-isocyanatosulphonyltoluene; tosyl isocyanate	Index number: CAS: EC: REACH No.:	615-012-00-7 4083-64-1 223-810-8 01- 2119980050 -47	<p>⚠ 3.3/2 Eye Irrit. 2 H319</p> <p>⚠ 3.8/3 STOT SE 3 H335</p> <p>⚠ 3.2/2 Skin Irrit. 2 H315</p> <p>⚠ 3.4.1/1 Resp. Sens. 1 H334</p> <p>EUH014</p> <p>Specific Concentration Limits: C >= 5%: Eye Irrit. 2 H319 C >= 5%: STOT SE 3 H335 C >= 5%: Skin Irrit. 2 H315</p>
>= 0.001% - < 0.1%	hexamethylene-diisocyanate	CAS: EC: REACH No.:	822-06-0 212-485-8 01- 2119457571 -37	<p>⚠ 3.3/2 Eye Irrit. 2 H319</p> <p>⚠ 3.2/2 Skin Irrit. 2 H315</p> <p>⚠ 3.1/1/Inhal Acute Tox. 1 H330</p> <p>⚠ 3.1/4/Oral Acute Tox. 4 H302</p> <p>⚠ 3.4.1/1 Resp. Sens. 1 H334</p> <p>⚠ 3.4.2/1 Skin Sens. 1 H317</p> <p>⚠ 3.8/3 STOT SE 3 H335</p> <p>Specific Concentration Limits: C >= 0,5%: Skin Sens. 1 H317 C >= 0,5%: Resp. Sens. 1 H334</p> <p>Acute Toxicity Estimate: ATE - Oral 746 mg/kg bw ATE - Inhalation (Vapours) 0,124 mg/l</p>
	1-methoxy-2-propanol;	Index	603-064-00-3	⚠ 2.6/3 Flam. Liq. 3 H226

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

>= 0. 0005% - < 0.001%	monopropylene glycol methyl ether	number: 107-98-2 CAS: EC: 203-539-1 REACH No.: 01- 2119457435 -35	⚠ 3.8/3 STOT SE 3 H336 Acute Toxicity Estimate: ATE - Oral 3739 mg/kg bw ATE - Dermal 2001 mg/kg bw ATE - Inhalation (Vapours) 30,02 mg/l
------------------------------	--------------------------------------	--	--

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of 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:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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

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

None

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

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

Treatment:

No particular treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam.

Carbon dioxide (CO₂)

Dry powder

Extinguishing media which must not be used for safety reasons:

High power water jet

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB**

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

- Wash with plenty of water.

6.4. Reference to other sections

- See also section 8 and 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Use localized ventilation system.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.
- See also section 8 for recommended protective equipment.
- Advice on general occupational hygiene:
 - Contaminated 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 ambient temperatures. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
- Keep away from food, drink and feed.
- Incompatible materials:
 - None in particular.
- Instructions as regards storage premises:
 - Cool and adequately ventilated.

7.3. Specific end use(s)

- None in particular

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Occupational exposure limit values

homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

- OEL Type: National - STEL: 1 mg/m³ - Behaviour: Indicative
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - OEL Type: ACGIH - TWA(8h): 150 ppm - STEL: 100 ppm
 - OEL Type: National - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Behaviour: Binding - Notes: France VLEPC
 - OEL Type: National - TWA(8h): 270 mg/m³, 50 ppm - Notes: GERMANY
 - OEL Type: National - TWA(8h): 274 mg/m³, 50 ppm - STEL: 548 mg/m³, 100 ppm - Notes: UK (WELs)
 - OEL Type: National - TWA: 260 mg/m³ - STEL: 520 mg/m³ - Notes: POLAND
 - OEL Type: EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
 - OEL Type: AIHA
- TWA: 50 ppm
 - OEL Type: National - TWA: 275 mg/m³, 50 ppm - STEL(5 min (Mow)): 550 mg/m³, 100 ppm - Notes: Österreich
 - OEL Type: National - TWA: 270 mg/m³, 50 ppm - Notes: Norway (Skin)
- 4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1
 - OEL Type: National - TWA: 0.02 mg/m³ - STEL: 0.07 mg/m³ - Notes: UK
- hexamethylene-di-isocyanate - CAS: 822-06-0
 - OEL Type: ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr, resp sens
 - OEL Type: National - TWA: 0.075 mg/m³, 0.01 ppm - STEL(5'): 0.15 mg/m³, 0.02 ppm - Behaviour: Indicative - Notes: France (INRS)
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
 - OEL Type: National - TWA(8h): 188 mg/m³, 50 ppm - STEL: 375 mg/m³, 100 ppm - Behaviour: Binding - Notes: France VLEC - INRS TMP N°84
 - OEL Type: National - TWA: 370 mg/m³, 100 ppm - Notes: Germany
 - OEL Type: National - TWA: 180 mg/m³ - STEL: 360 mg/m³ - Notes: Poland
 - OEL Type: EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr
 - OEL Type: National - TWA: 187 mg/m³, 50 ppm - STEL(15min (Miw)): 187 mg/m³, 50 ppm - Notes: Austria
 - OEL Type: National - TWA(8h): 375 mg/m³, 100 ppm - STEL(15min (Miw)): 560 mg/m³, 150 ppm - Notes: United Kingdom - Skin
 - OEL Type: National - TWA(8h): 188 mg/m³, 50 ppm - STEL: 375 mg/m³, 100 ppm - Notes: Canada (Gazette Officielle du Québec, January 4, 2023, Vol. 155, No.1)
 - OEL Type: National - TWA: 180 mg/m³, 50 ppm - Notes: Norway (skin)
 - OEL Type: DOW IHG - TWA: 1.5 ppm - STEL: 4.5 ppm

DNEL Exposure Limit Values

- homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2
 - Worker Industry: 0.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 - Worker Industry: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

Worker Industry: 796 mg/kg b.w./day - Consumer: 320 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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

Consumer: 36 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 550 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

Worker Industry: 0.92 mg/kg b.w./day - Consumer: 0.46 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 3.24 mg/m³ - Consumer: 0.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.46 mg/kg b.w./day - Exposure: Human Oral

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Industry: 369 mg/m³ - Consumer: 43.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 50.6 mg/kg b.w./day - Consumer: 18.1 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 3.3 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

PNEC Exposure Limit Values

homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2

Target: Fresh Water - Value: 0.127 mg/l

Target: Freshwater sediments - Value: 266701 mg/kg dw

Target: Marine water - Value: 0.0127 mg/l

Target: Marine water sediments - Value: 26670 mg/kg dw

Target: Sewage treatment plant - Value: 88 mg/l

Target: Soil - Value: 53183 mg/kg dw

Target: Intermittent discharge - Value: 1.27 mg/l

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

Target: Fresh Water - Value: 0.635 mg/l

Target: Marine water - Value: 0.0635 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Freshwater sediments - Value: 3.29 mg/kg dw

Target: Marine water sediments - Value: 0.329 mg/kg dw

Target: Soil - Value: 0.29 mg/kg

Target: PNEC intermittent - Value: 6.35 mg/l

4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

Target: Fresh Water - Value: 0.03 mg/l

Target: Marine water - Value: 0.003 mg/l

Target: PNEC intermittent (fresh water) - Value: 0.3 mg/l

Target: Freshwater sediments - Value: 0.172 mg/kg dw

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

Target: Marine water sediments - Value: 0.0172 mg/kg dw
 Target: Soil - Value: 0.0168 mg/kg dw
 Target: Sewage treatment plant - Value: 0.4 mg/l
 hexamethylene-di-isocyanate - CAS: 822-06-0
 Target: Sewage treatment plant - Value: 8.42 mg/l - Notes:: OECD 209
 Target: Fresh Water - Value: 77.4 µg/l - Notes:: Scenedesmus subspicatus
 Target: Intermittent discharge - Value: 774 µg/l - Notes:: Scenedesmus subspicatus
 Target: Marine water - Value: 7.74 µg/l - Notes:: Scenedesmus subspicatus
 Target: Freshwater sediments - Value: 13.34 mg/kg - Notes:: equilibrium partitioning)
 Target: Marine water sediments - Value: 1.33 mg/kg - Notes:: equilibrium partitioning)
 Target: Soil - Value: 2.6 mg/kg - Notes:: equilibrium partitioning)
 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
 Target: Fresh Water - Value: 10 mg/l
 Target: Freshwater sediments - Value: 41.6 mg/kg
 Target: Marine water sediments - Value: 4.17 mg/kg
 Target: Soil (agricultural) - Value: 2.47 mg/kg
 Target: Microorganisms in sewage treatments - Value: 100 mg/l
 Target: Marine water - Value: 1 mg/l
 Target: Water (intermittent discharge) - Value: 100 mg/l

Biological Exposure Index
 N.A.

8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

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

Protection for skin:

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

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

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

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Colourless	--	--

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB

Odour:	de solvant/ solvent-like	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	>36°C	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	45°C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	N.A.	--	--
Kinematic viscosity:	> 20,5 mm ² / sec (40 °C)	--	--
Solubility in water:	partiellement miscible/ partially miscible	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	<1.000 hPa (50°C)	--	--
Density and/or relative density:	~1.14 g/cm ³	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	>20.6 mm ² /s (40°C)	--	--

Volatile Organic compounds - VOCs = 9.77 %

N.A. = not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Strong oxidizers.

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:

LBYH 142 PB

Acute toxicity

The product is classified: Acute Tox. 4 H332

ATEmix - Inhalation (Vapours) 13,4232 mg/l

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB

Based on available data, the classification criteria are not met

STOT-single exposure

The product is classified: STOT SE 3 H335

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2

Acute toxicity

ATE - Inhalation (Dust/mist) 1,5 mg/l

Test: LD50 - Route: Oral - Species: Rat (female) > 2000 mg/kg - Source: OECD 423

Test: LD50 - Route: Skin - Species: Rabbit (male, female) > 2000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation (dust, mist) - Species: Rat (Male, female) = 0.390 mg/l -

Duration: 4h - Source: OECD 403

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

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 10.8 mg/l

Test: LC50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD 402

Test: LC0 - Route: Inhalation Vapour - Species: Rabbit = 23.5 mg/l - Source: OECD 403

Test: ATE - Route: Oral > 5000 mg/kg

Test: ATE - Route: Inhalation Vapour > 23.5 mg/l - Duration: 6 hours

Test: ATE - Route: Skin > 5000 mg/kg

4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2230 mg/kg - Source: OECD 401; 95% CL: 2080 - 2600

Test: LC50 - Route: Inhalation - Species: Rat > 640 ppm - Duration: 1h

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402; Guideline: EU Method B.3

hexamethylene-di-isocyanate - CAS: 822-06-0

Acute toxicity

ATE - Oral 746 mg/kg bw

ATE - Inhalation (Vapours) 0,124 mg/l

Test: LD50 - Route: Oral - Species: Rat = 746 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rat > 7000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat = 0.124 mg/l - Duration: 4h - Source: OECD 403

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Acute toxicity

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB

ATE - Oral 3739 mg/kg bw
ATE - Dermal 2001 mg/kg bw
ATE - Inhalation (Vapours) 30,02 mg/l
Test: LD50 - Route: Oral - Species: Rat (male) = 3739 mg/kg - Source: OECD 401
Test: LD50 - Route: Oral - Species: Rat (female) = 4277 mg/kg - Source: OECD 401
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h
Test: LC50 - Route: Inhalation Vapour - Species: Rat (Male, female) = 30.02 mg/l - Duration: 4h - Source: OECD 403
Test: ATE - Route: Oral = 3739 mg/kg
Test: ATE - Route: Inhalation Vapour = 30.02 mg/l - Duration: 4h

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

Other toxicological information:

None.

SECTION 12: Ecological information**12.1. Toxicity**

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

LBYH 142 PB

Not classified for environmental hazards

Based on available data, the classification criteria are not met

homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Danio rerio; Directive 67/548/CEE, Annexe V, C.1.

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia magna; Directive 67/548/CEE, Annexe V, C.2.

Endpoint: EC50r - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus; DIN 38412

Endpoint: EC50 - Species: bacteria = 3828 mg/l - Duration h: 3 - Notes: OECD 209 - Activated sludge

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Aquatic plants > 1000 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum, OECD 201

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss, OECD 203

Endpoint: EC50 - Species: Invertebrates > 500 mg/l - Duration h: 48 - Notes: Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336 - Notes: Oryzias latipes, OECD 204

Endpoint: NOEC - Species: Invertebrates > 100 mg/l - Duration h: 504 - Notes: Daphnia magna,

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

OECD 202

4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 48.68 mg/l - Notes: PNN

Endpoint: LC50 - Species: Fish = 133.902 mg/l - Notes: Ecosar

Endpoint: LC50 - Species: Fish > 45 mg/l - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Crustacea > 100 mg/l - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 30 mg/l - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Algae = 25 mg/l - Notes: Pseudokirchneriella subcapitata

hexamethylene-di-isocyanate - CAS: 822-06-0

a) Aquatic acute toxicity:

Endpoint: EC0 - Species: Daphnia Magna >= 89.1 mg/l - Duration h: 48 - Notes: EU C.2

Endpoint: ErC50 - Species: Algae > 77.4 mg/l - Duration h: 0-72 - Notes: Desmodesmus subspicatus (EU C.3)

Endpoint: LC0 - Species: Fish >= 82.8 mg/l - Duration h: 96 - Notes: Brachydanio rerio (EU C.1)

Endpoint: NOEC - Species: Algae = 11.7 mg/l - Duration h: 11.7 - Notes: Desmodesmus subspicatus (EU C.3)

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Leuciscus idus, LC/EC/IC50

Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: LC/EC/IC50

Endpoint: LC50 - Species: Algae > 1000 mg/l - Notes: LC/EC/IC50

Endpoint: LC50 - Species: Fish < 4600 mg/l - Duration h: 96 - Notes: Leuciscus idus

12.2. Persistence and degradability

homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2

Biodegradability: Non-readily biodegradable - Test: Directive 67/548/CEE, Annexe V, C.4.E. - Duration: 28 days - %: 1%

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

Biodegradability: Biological oxygen demand (BOD) - Test: OECD 301F - Duration: 28 days - %: 83% - Notes: ISO 9408; 92/69/CEE, C.4-D

4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

Biodegradability: Not persistent and Biodegradable

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

homopolymère 1-6-diisocyanated'hexaméthylène - CAS: 28182-81-2

BCF 3.2

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

BCF < 100

Log Pow < 3

4-isocyanatosulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

Log Kow - Test: KowWin 2.34

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Log Pow 0.37

12.4. Mobility in soil

N.A.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

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 $\geq 0.1\%$

12.7. Other adverse effects

No harmful effects expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

08 01 11* wastes of paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transport information



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

IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

ADR - Hazard identification number: 30

IATA-Class: 3

IATA-Label: 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-Environmental 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 (Tunnel restriction code): 3 (D/E)

IATA-Passenger Aircraft: 355

IATA-Subsidiary hazards: -

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-
Q.L.:	5L
Q.E.:	E1

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
 Dir. 2000/39/EC (Occupational exposure limit values)
 Regulation (EC) n. 1907/2006 (REACH)
 Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) 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)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 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 30

Restriction 74

Restriction 75

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB

Listed or in compliance with the following international inventories:

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

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

SECTION 16: Other information

N.A.: Not Applicable or Not Available

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.

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

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

EUH014 Reacts violently with water.

H330 Fatal if inhaled.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

LBYH 142 PB

H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 1	3.1/1/Inhal	Acute toxicity (inhalation), Category 1
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1	3.4.1/1	Respiratory Sensitisation, Category 1
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
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. (EC) 1272/2008 [CLP] Yönetmeliğine göre karışımların sınıflandırmasını elde etmek için kullanılan sınıflandırma ve prosedür:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method

Due to the integration of the Mader Aero products range into the Socomore Group, all Safety Data Sheets have been re-evaluated on the basis of consolidated information. This may have led to significant changes in our Safety Data Sheets. If you have any questions regarding these changes, you can contact us at the address indicated in section 1.

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

Main bibliographic sources:

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB**

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
CCNL - Appendix 1
Insert further consulted bibliography

Important confidentiality : this document contains confidential information that is proprietary to SOCOMORE. Subject to legal provisions determining otherwise, the distribution, republication or re-transmission of this document, in full or in part, must be limited to clearly identified individuals, either because they use the product, or to provide HSE information. Any communication of this document outside of this framework without our written consent is strictly forbidden.

SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

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 responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

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.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 142 PB

LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.