

SODAL**SAFETY DATA SHEET**

Pursuant to Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

Soudaflex 20 LM**SECTION 1: Identification of the substance / mixture and of the company / undertaking****1.1 Product designation**

Product name : Soudaflex 20 LM
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses Sealing product****1.2.2 Uses from which it is not recommended**

No uses advised against known

1.3 Details of the supplier of the safety data sheet**Supplier of the safety data sheet**

SODAL NV
 Everdongenlaan 18-20
 B-2300 Turnhout y +32
 14 42 42 31
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 msds@soudal.com

Manufacturer of the product

SODAL NV
 Everdongenlaan 18-20
 B-2300 Turnhout y +32
 14 42 42 31
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 msds@soudal.com

1.4 Telephone numbers for emergencies

24/24 h (Telephone counseling: English, French, German, Dutch):
 +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classified as dangerous according to criteria in Regulation (EC) No 1272/2008

Class	Category	Hazard
Eye Irrit.	Category 2	statement H319: Causes serious eye irritation.
Skin Irrit.	Category 2	H315: Irritating to skin.
Resp. Sens.	Category 1	H334: May cause allergy or asthma symptoms or difficulty breathing if inhaled.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Contains: 4,4'-methylenediphenyl diisocyanate; bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; poly (oxy-1,2-ethanediyl), alpha. - [(2Z) -3-carboxy-1-oxo-2-propenyl] - .omega.-hydroxy, C9-11-alkyl ethers.

Signal Fara**word H-indications**

H319 Causes serious eye irritation.
 H315 Irritating to skin.
 H334 May cause allergy or asthma symptoms or difficulty breathing if inhaled.
 H412 Harmful long-term effects to aquatic organisms.

P-indications

P101 Have the packaging or label on hand if you need to seek medical attention.

Prepared by: Fire brigade information center for hazardous substances vzw (BIG)
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 www.big.be © BIG vzw

Release date: 2014-11-04
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Revised for: 2; 3; 4; 5; 6; 7; 8; 10.4; 11; 15; 16

Revision number: 0200

Product number: 54830

1/16

Soudaflex 20 LM

P102	Keep out of reach of children.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P284	Use respiratory protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF INTERACTED: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue to rinse.
P337 + P313	In case of persistent eye irritation: Seek medical help.
P501	The contents / container are left in accordance with local / regional / national / international regulations.

Additional information

- People who are already sensitive to diisocyanates may suffer from allergic reactions when using this product.
- People with asthma, eczema or skin problems should avoid contact, including skin contact, with this product.
- In poor ventilation conditions, this product should only be used in conjunction with a protective mask with a suitable gas filter (type A1 according to standard EN 14387).

2.3 Other hazards

No other known risks

SECTION 3: Composition / information on ingredients

3.1 Topics

Not applicable

3.2 Mixtures

Name REACH registration number	CAS No. EC No.	Conc. (C)	Classification according to CLP	Footnote	Note
4,4'-methylenediphenyl diisocyanate 01-2119457014-47	101-68-8 202-966-0	0.1% <C <1%	Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1) (2) (8) (10)	Ingredient
bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7 255-437-1	0.1% <C <1%	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1) (10)	Ingredient
poly (oxy-1,2-ethanediyl), alpha. - [(2Z)-3-carboxy-1-oxo-2-propenyl] -. omega.-hydroxy-, C9-11-alkyl ethers	709014-50-6	0.1% <C <1%	Skin Sens. 1; H317	(1)	Ingredient
xylene 01-2119488216-32	1330-20-7 215-535-7	C <10%	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	(1) (2) (6) (10)	Ingredient
N, N-dibenzylidene polyoxypropylenediamine (polymer)	136855-71-5	1% <C <3%	Skin Corr. 1B; H314	(1) (10)	Ingredient

(1) Full text of H-Statements as follows: see section 16

(2) Substance with a general exposure limit for workplaces

(6) Listed in Annex VI to Regulation (EC) No 1272/2008 but the classification has been adjusted following the evaluation of the available test data

(8) Katso erityiset pitoisuusrajat kohdasta 16

(10) Subject to limitation of Annex XVII to Regulation (EC) No 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures

General:

Check the vital functions (ABC). In case of unconsciousness: observe and maintain free airways. In case of respiratory arrest: give artificial or oxygen. In cardiac arrest: cardiopulmonary resuscitation. Conscious person with mediocre breathing: half-sitting. Person in shock: on his back with his legs raised. In case of vomiting: Prevent suffocation / aspiration pneumonia. Prevent cooling by covering the person (no up). Continue to monitor the person. Give psychological help.

Keep the person calm, avoid physical exertion. Depending on the person's condition: doctor / hospital. Alcohol drinking increases toxicity.

Inhalation:

Remove person to fresh air. In case of difficulty breathing, consult a doctor.

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2/16

Soudaflex 20 LM

In case of contact with skin:

Rinse immediately with plenty of water. TvÁl for use. For person with persistent irritation to doctor.

In case of contact with eyes:

Rinse immediately with plenty of water. (remove any contact lenses if possible). For a person with persistent eye irritation to a doctor.

In case of ingestion:

Rinse mouth with water. In case of nausea or other effects, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

Inhalation:

No known effect.

In case of contact with skin:

Tingling / irritation of the skin.

In case of contact with

eyes: Irritation of the eye tissue. TÁrfli'de.

Ingestion:

Swelling. Violations.

4.2.2 Delayed symptoms

No known effect.

4.3 Indication of any immediate medical attention and special treatment needed

If applicable and available, it will be listed below.

SECTION 5: Fire-fighting measures

The information in this section is a general description. If available, documentation of isolated intermediates used on site will be attached to the appendix to facilitate safe handling.

5.1 Extinguishing

media 5.1.1 Suitable

extinguishing media: Adapt extinguishing media to suit the environment.

5.1.2 Unsuitable extinguishing

media: No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture

During combustion: CO, CO2 and small amounts of nitrogen vapors are formed.

5.3 Advice for firefighters

5.3.1 Instructions:

Thin / dilute toxic gases with water spray. Observe toxic / caustic waterfalls. Pay attention to the environmentally polluting fire water. Limit the use of and, if possible, collect extinguishing water.

5.3.2 Special protective equipment for firefighters:

Gloves. Safety glasses. Protective clothing. In case of fire / heat: compressed air / oxygen device.

SECTION 6: Accidental release measures

The information in this section is a general description. If available, documentation of isolated intermediates used on site will be attached to the appendix to facilitate safe handling.

6.1 Personal precautions, protective equipment and emergency procedures

No Open Laws.

6.1.1 Protective equipment for personnel other than rescue personnel

See section 8.2

6.1.2 Protective equipment for rescue personnel

Gloves. Safety glasses. Protective clothing.

Appropriate protective clothing

See section 8.2

6.2 Environmental precautions

Collect the leaking topic. Wall in solid waste. Prevent soil and water pollution. Prevent spread in sewers. Use appropriate measures to avoid environmental pollution.

6.3 Methods and material for containment and cleaning up

Shovel up spilled material into the sealing container. Collect played item / rest carefully. Clean contaminated surfaces with soap solution. Leave collected waste to the producer / relevant authority.

Wash clothing and equipment after treatment.

6.4 Reference to other sections

See section 13.

Soudaflex 20 LM

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached to the appendix. Always use the relevant exposure scenarios that correspond to your identified use. The information in this section is a general description. If available, documentation of isolated intermediates used on site will be attached to the appendix to facilitate safe handling.

7.1 Protective measures for safe handling

Keep away from open lid / hood. Very strict hygiene - avoid all contact. Keep the package tightly closed. Immediately remove contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Safety requirements for storage:

Store at room temperature. The packaging is stored in a well-ventilated place. Follow the legal standards. Max. shelf life: 1 year.

7.2.2 Keep away from:

Heat exchanger.

7.2.3 Suitable packaging material:

Polyethylene.

7.2.4 Unsuitable packaging material:

Information is missing

7.3 Specific end use (s) If

available, documentation on isolated intermediates used on site will be attached to the annex to facilitate safe handling.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

8.1.1 Exposure in the workplace

a) Occupational exposure limit values if the limit values are

to be applied and available, they are listed below.

EU

Xylene, all isomers	Time-weighted average threshold 8 hours (Indicative occupational threshold)	50 ppm
	Time-weighted average threshold 8 hours (Indicative occupational threshold)	221 mg / m ³
	Short-term value (Indicative occupational health limit value)	100 ppm
	Short-term value (Indicative occupational health limit value)	442 mg / m ³

Sweden

4,4'-Methylenediphenyl diisocyanate	Time-weighted average green value 8 h	0.002 ppm
	Time-weighted average green value 8 h	0.03 mg / m ²
	Short-term value	0.005 ppm
	Short-term value	0.05 mg / m ³
Xylene	Time-weighted average green value 8 h	50 ppm
	Time-weighted average green value 8 h	221 mg / m ³
	Short-term value	100 ppm
	Short-term value	442 mg / m ³

b) National biological limit values if the limit

values are to be applied and are available, they are listed below.

8.1.2 Sampling methods

If applicable and available, it will be listed below.

4,4'-Methylene Bisphenyl Isocyanate (MDI) (Isocyanates)	NIOSH	5521
4,4'-Methylenebis (phenylisocyanate)	NIOSH	5525
Methylene Bisphenyl Isocyanate - (MDI)	OSHA	18
Methylene Bisphenyl Isocyanate (MDI)	OSHA	47
Methylene Bisphenyl Isocyanate	OSHA	33
Xylene (Hydrocarbons, aromatic)	NIOSH	1501
Xylene (Volatile Organic Compounds)	NIOSH	2549

8.1.3 Applicable limit values when using the substance or mixture as intended

If the limit values are to be applied and are available, they are listed below.

8.1.4 DNELs / PNECs

DNEL / DMEL - Employees

Soudaflex 20 LM

4,4'-methylenediphenyl diisocyanate

Power level (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term local effects inhalation	0.05 mg / month	
	Acute -local effects inhalation	0.1 mg / month	

xylene

Power level (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects inhalation	77 mg / m	
	Acute -systematic effects inhalation	289 mg / m	
	Acute -local effects inhalation	289 mg / m	
	Long-term systemic effects dermal	180 mg / kg bw / day	

DNEL / DMEL - The general population

4,4'-methylenediphenyl diisocyanate

Power level (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term local effects inhalation	0.025 mg / m ³	
	Acute -systematic effects inhalation	0.05 mg / m ³	

xylene

Power level (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects inhalation	14.8 mg / m	
	Acute -systematic effects inhalation	174 mg / m	
	Acute -local effects inhalation	174 mg / m	
	Long-term systemic effects dermal	108 mg / kg bw / day	
	Long-term systemic effects orally	1.6 mg / kg bw / day	

PNEC

4,4'-methylenediphenyl diisocyanate

Medium	Value	Note
Fresh water	1 mg /	
Sea water	0.1 mg / l	
Water (intermittent discharge)	10 mg /	
STP	1 mg /	
Soil / soil	1 mg / kg soil dw	

xylene

Medium	Value	Note
Fresh water	0.327 mg / l	
Sea water	0.327 mg / l	
Water (intermittent discharge)	0.327 mg / l	
STP	6.58 mg /	
Freshwater sediment	12.46 mg / kg sediment dw	
Seawater sediment	12.46 mg / kg sediment dw	
Ground /	2.31 mg / kg soil dw	

mark 8.1.5 Control banding

If applicable and available, it will be listed below.

8.2 Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached to the appendix. Always use the relevant exposure scenarios that correspond to your identified use. The information in this section is a general description. If available, documentation of isolated intermediates used on site will be attached to the appendix to facilitate safe handling.

8.2.1 Appropriate engineering controls

Keep away from open lid / hood. Carry out the work with the product outdoors / with a ventilation device during ventilation or with respiratory protection.

8.2.2 Individual protection measures, e.g. personal protective equipment

Very strict hygiene - avoid all contact. Keep the package tightly closed. Do not eat, drink or smoke during work. a) Respiratory protection: Gas mask with filter type A at conc. in the air > exposure limit value. b) Hand protection: Gloves. c) Eye protection:

Safety glasses. d) Skin protection: Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

Soudaflex 20 LM

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical shape	Pasta
Smell	Characteristic odor
Odor threshold	Information is missing
F % _{org}	Color variable, depending on the composition
Particle size	Information is missing
Explosion limit	Not applicable
Flammability	Ej eldf % _{ngd}
Log Kow	Not applicable (mixture)
Dynamic viscosity	Information is missing
Kinematic viscosity	Information is missing
Melting point	Information is missing
Boiling point	Information is missing
Flash point	Not applicable
Evaporation rate	Information is missing
Relative vapor density	Information is missing
Vapor pressure	Information is missing
Solubility	Information is missing
Relative density	1.24; 20 ° C
Decomposition temperature	Information is missing
Self-breathing temperature	Information is missing
Explosive properties	No chemical group that has explosive properties
Oxidizing properties	No chemical group that has oxidizing properties
pH	Information is missing

9.2 Other information

Absolute density	1240 kg / m ³ ; 20 ° C
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SECTION 10: Stability and reactivity

10.1 Reactivity No

information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Information is missing.

10.4 Conditions to avoid

Keep away from open flame / heat.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

On combustion: CO, CO₂ and small amounts of nitrogen are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Test results

Acute toxicity

Soudaflex 20 LM

No (test) data on the mixture available

Soudaflex 20 LM

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter Method	Value	Exposure time	Nature	Determination of value	Note
Oral	LD50	Equivalent to OECD 401 > 7616 mg / kg		Right (woman)	Read-across	
Dermal	LD50	Equivalent to OECD 402 > 9400 mg / kg bw 24 h		Rabbit (male / female)	Read-across	
Dermal	Percutaneous absorption	EPA OPPTS 870.7600 0.9%	8 h	Right (man)	Experimental value	
Inhalation (aerosol) LC50		Equivalent to OECD 403 0.49 mg / l air	4 h	Right (male / female)	Read-across	
		category 4			Annex VI	

bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Route of exposure	Parameter Method	Value	Exposure time	Nature	Determination of value	Note
Oral	LD50	> 2000 mg / kg		Correct	Literature study	

xylene

Route of exposure	Parameter Method	Value	Exposure time	Nature	Determination of value	Note
Oral	LD50	EU method B.1 3523 mg / kg bw		Right (man)	Experimental value	
Oral	LD50	EU method B.1 > 4000 mg / kg bw		Right (woman)	Experimental value	
Dermal	LD50	> 4200 mg / kg bw 4 h		Rabbit (male)	Experimental value	
Inhalation LC50		EU method B.2 29 mg / l	4 h	Right (man)	Experimental value	
Inhalation LC50		EU method B.2 27.57 mg / l	4 h	Right (man)	Experimental value	

The assessment is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion / irritation

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure Results	Method	Exposure time	Time	Nature	Determination of value	Note
÷ ga	Slightly annoying			Rabbit	Experimental value	
÷ ga	Annoying			Human	The weight of the evidence	
Skin	Annoying	OECD 404	4 h	24; 48; 72 hours Rabbit	Read-across	
Skin	Annoying			Human	The weight of the evidence	
Inhalation	Annoying			Human	The weight of the evidence	

xylene

Route of exposure Results	Method	Exposure time	Time	Nature	Determination of value	Note
÷ ga	Moderately annoying	OECD 405		24; 48; 72 hours Rabbit	Experimental value	
Skin	Moderately annoying		24 h	24; 72 hours	Rabbit	Experimental value
Inhalation Irritant			4 h		Human	
	Annoying; STOT SE Kat.3					Literature study

N, N-dibenzylidene polyoxypropylenediamine (polymer)

Route of exposure Results	Method	Exposure time	Time	Nature	Determination of value	Note
Skin	category 1B					Literature study

The classification is based on the relevant ingredients

Conclusion

Irritating to skin.

Causes serious eye irritation.

Not classified as irritating to respiratory system

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Soudaflex 20 LM

Respiratory or skin sensitization

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Results	Method	Exposure time	Observation time nkt	Art	Determination of value	Note
Skin	Sensitizing	OECD 429			Mouse	Experimental value	
Inhalation	Sensitizing				Right (man)	Experimental value	
Inhalation	Sensitizing				Guinea pig (female)	Experimental value	

bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Route of exposure	Results	Method	Exposure time	Observation time nkt	Art	Determination of value	Note
Skin	Sensitizing; category 1					Literature study	

xylene

Route of exposure	Results	Method	Exposure time	Observation time nkt	Art	Determination of value	Note
Skin	Not sensitizing	OECD 429			Mouse	Experimental value	

The classification is based on the relevant ingredients

Conclusion

May cause allergy or asthma symptoms or difficulty breathing if inhaled.

Not classified as a skin sensitizer

Specific target organ toxicity

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

Exposure path	Parameter	Method	Value	Organ	Effect	Exposure time	Nature	Determination of value
Inhalation (aerosol)	LOAEC	± other	0.23 mg / m ³ air	Lungs	Impact y 104 weeks on / degeneration (17h / day) of lung tissue		Right (woman)	Experimental value

xylene

Exposure path	Parameter	Method	Value	Organ	Effect	Exposure time	Nature	Determination of value
Oral (stomach probe)	LOAEL	Equivalent to OECD 408	150 mg / kg bw / day	Liver	Weight gain	90 day (s)	Right (man)	Experimental value
Oral (stomach sin)	NOAEL	Equivalent to OECD 453	250 mg / kg bw / day		No effect	103 weeks (6h / day, 5 days / week) (man / woman)	Right (man)	Experimental value
Inhalation	NOAEC	Subchronic toxicity test	3515 mg / m ³		No effect	day, 5 days / week)	Right (man)	Experimental value

The assessment is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Germ cell mutagenicity (in vitro)

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

Result	Method	Test substrate	Effect	Determination of value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium)	No effect	Experimental value

xylene

Result	Method	Test substrate	Effect	Determination of value
Negative with metabolic activation, negative without metabolic activation	EU method B.19	Chinese Hamster Ovarian Cells (CHO)	No effect	Experimental value

Mutagenicity (in vivo)

Soudaflex 20 LM

No (test) data on the mixture available

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8/16

Soudaflex 20 LM

4,4'-methylenediphenyl diisocyanate

Result	Method	Exposure time	Test substrate	Organ	Determination of value
Negative	OECD 474	3 weeks (1h / day, 1 day / week)	Right (man)		Experimental value

xylene

Result	Method	Exposure time	Test substrate	Organ	Determination of value
Negative	Equivalent to OECD 478		Mouse (male / female)		Experimental value

The assessment is based on the relevant ingredients

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

Exposure vv	Parameter Method own	Value	Exposure time	Nature	Effect	Organ	Determination of value
Inhalation (aerosol)	NOAEC = other	0.7 mg / m ³ air	104 weeks (17h / day, 5 days / week)	Right (female)	No carcinogenic effect		Experimental value

xylene

Exposure vv	Parameter Method own	Value	Exposure time	Nature	Effect	Organ	Determination of value
Oral	NOAEL EU method B.32	500 mg / kg bw / day	103 weeks (5 days / week)	Right (male / female)	No carcinogenic effect		Experimental value
Oral	NOAEL EU method B.32	1000 mg / kg bw / day	103 weeks (5 days / week)	Mouse (male / female)	No carcinogenic effect		Experimental value

The assessment is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

	Parameter	Method	Value	Exposure time Art	Effect	Organ	Determination of value
Developmental toxicity	NOAEL	OECD 414	3 mg / m ³ air	10 days (6h / day) 9	Right (female) No effect		Experimental value
	LOAEL	OECD 414	mg / m ³ air	10 days (6h / day) 10 day (s)	Right (female) Embryotoxicity		Experimental value
Maternal toxicity	NOAEL	OECD 414	4 mg / kg bw / day		Right (female) No effect		Read-across
Effects on fertility							Ignore data

xylene

	Parameter	Method	Value	Exposure time Art	Effect	Organ	Determination of value
Developmental toxicity	NOAEC	Equivalent to OECD 414	500 ppm	14 days (6h / day)	Right (male / female)	fetus	Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	500 ppm	20 days (6h / day)	Right (male / female)		Experimental value
Effects on fertility NOAEC (P)		EPA OPPTS 870.3800	500 ppm	70 days (6h / day)	Right (male / female)		Experimental value

The assessment is based on the relevant ingredients

Conclusion

Not classified for reproductive or developmental toxicity

Toxicity other effects

Soudaflex 20 LM

No (test) data on the mixture available

Soudaflex 20 LM

4,4'-methylenediphenyl diisocyanate

Parameter	Method	Value	Organ	Effect	Exposure time	Nature	Determination of value
LD50		100 mg / kg bw				Mouse (man)	Experimental value

Chronic effects of short-term and long-term exposure

Soudaflex 20 LM

AFTER LONG TERM / REPEATED EXPOSURE / CONTACT: Difficulty breathing. Skin rash / inflammation.

SECTION 12: Ecological information

12.1 Toxicity

Soudaflex 20 LM

No (test) data on the mixture available

4,4'-methylenediphenyl diisocyanate

	Parameter Method	Value	Duration Art		Test design tion	Sweet / salt water	Determination of value
Acute toxicity fish	LC50	OECD 203 > 1000 mg / l	96 t	Danio rerio	Static system	Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates EC50		OECD 202	129.7 mg / l	24 h	Daphnia magna Static System	Fresh water	Read-across; Movement effect
Toxicity of algae and other aquatic plants	EC50	OECD 201	> 1640 mg / l	72 h	Desmodesmus subspicatus Static system	Fresh water	Read-across; Growth rate
Long-term toxicity to invertebrate aquatic animals	NOEC	OECD 211	10 mg / l	10 d	Daphnia magna Semistatic system	Fresh water	Read-across; Reproduction
Toxicity of aquatic micro-organisms	EC50	OECD 209	> 100 mg / l	3 h	Activated sludge	Fresh water	Read-across; Nominal concentration

bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

	Parameter Method	Value	Duration Art		Test design tion	Sweet / salt water	Determination of value	
Acute toxicity fish	LC50	OECD 203	0.97 mg / l	96 t	Lepomis macrochirus	Static system	Fresh water	Experimental value
Acute toxicity invertebrates EC50		OECD 202	20 mg / l	24 h	Daphnia magna			Experimental value
Toxicity aquatic microorganisms xylene	EC50	OECD 209	> 100 mg / l	3 h	Activated sludge			Experimental value

	Parameter Method	Value	Duration Art		Test design tion	Sweet / salt water	Determination of value	
Acute toxicity fish	LC50	OECD 203	2.6 mg / l	96 t	Oncorhynchus mykiss	Static system	Fresh water	Read-across; Deadly
Acute toxicity invertebrates EC50			3.82 mg / l	48 t	Daphnia magna Genotox	Static system	Freshwater	Read-across
Toxicity of algae and other aquatic plants	ErC50	OECD 201	4.36 mg / l	72 t	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEC		> 1.3 mg / l	56 day (s)	Oncorhynchus mykiss	Throughput mixing system	Freshwater	Experimental value; Deadly
Long-term toxicity to invertebrate aquatic animals	NOEC	EPA 600 / 4-91-003	1.17 mg / l	7 day (s)	Ceriodaphnia dubia		Fresh water	Read-across; Reproduction
Toxicity of aquatic micro-organisms	NOEC	OECD 209	157 mg / l	3 h	Activated sludge	Static system	Fresh water	Read-across; GLP

The classification is based on the relevant ingredients

Conclusion

Harmful long-term effects to aquatic organisms.

12.2 Persistence and degradability

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4,4'-methylenediphenyl diisocyanate

Biodegradation water

Method	Value	Duration 28	Determination of value
OECD 302C	0%	day (s)	Read-across

Light transformation air (DT50 air)

Method	Value	Conc. OH radicals	Determination of value
AOPWIN v1.92	0.92 day (s)		QSAR

Half-life water (t1 / 2 water)

Method	Value	Primary degradation / mineralization	Determination of value
	20 t		Read-across

bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Biodegradation water

Method	Value	Duration 28	Determination of value
OECD 301E	38%	day (s)	Experimental value

xylene

Biodegradation water

Method	Value	Duration 28	Determination of value
OECD 301F	87.8%; GLP	day (s)	Read-across

Light transformation air (DT50 air)

Method	Value	Conc. OH radicals	Determination of value
÷ other	23.2 h	500000 / cm ³	Read-across

Conclusion

Contains degradable component (s)

12.3 Bioaccumulative potential

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Log Kow

Method	Note	Value	Temperature	Determination of value
	Not applicable (mixture)			

4,4'-methylenediphenyl diisocyanate

BCF fishes

Parameter	Method	Value	Duration 4	Nature	Determination of value
BCF	OECD 305	92 - 200	weeks / weeks	Cyprinus carpio	Experimental value

Log Kow

Method	Note	Value	Temperature	Determination of value
		5.22		Estimated value
OECD 117		4.51	22 ° C	Experimental value

bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Log Kow

Method	Note	Value	Temperature	Determination of value
OECD 107		0.37	25 ° C	Experimental value

xylene

BCF fishes

Parameter	Method	Value	Duration 8	Nature	Determination of value
BCF		7 - 26	week / weeks	Oncorhynchus mykiss	Experimental value

Log Kow

Method	Note	Value	Temperature	Determination of value
÷ other		3.2	20 ° C	Read-across

Conclusion

No simple conclusion can be drawn with the support of available numeric values

12.4 Mobility in soil

4,4'-methylenediphenyl diisocyanate

Volatility (Henry's law constant H)

Value	Method	Temperature	Note	Determination of value
8.95E-7 atm m ³ / mol		25 ° C		Estimated value

xylene

(log) Koc

Parameter	Method	Value	Determination of value
log Koc	Equivalent to OECD 121	2.73	Read-across

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Conclusion

No (test) mobility data for components available

12.5 Results of the PBT and vPvB assessment Due to insufficient data, no information can be given if the constituents meet the criteria in PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects

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Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components are included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

xylene

Groundwater

Makes groundwater unusable

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached to the appendix. Always use the relevant exposure scenarios that correspond to your identified use. The information in this section is a general description. If available, documentation of isolated intermediates used on site will be attached to the appendix to facilitate safe handling.

13.1 Waste treatment methods

13.1.1 Provisions concerning waste

Hazardous waste according to Directive 2008/98 / EC.

Waste code (Directive 2008/98 / EC, Decision 2000/0532 / EC).

08 04 09 * (Wastes from the manufacture, formulation, distribution and use of adhesives and sealants (including impregnating agents); adhesives and sealants containing organic solvents or other dangerous substances). Depending on the industry and production process, other waste codes may also be applicable.

13.1.2 Method of disposal

Dispose of waste in compliance with local and / or national regulations. Hazardous waste must not be mixed with other waste. Different types of hazardous waste should not be mixed if it could pose a risk of contamination or create problems in future waste management. Hazardous waste must be handled responsibly. All units that store, transport or handle hazardous waste must take the necessary measures to prevent risks of contamination or injury to people or animals. Do not discharge into drains or the environment. Take away to a treatment facility.

13.1.3 Packaging / Containers

Waste code packaging (Directive 2008/98 / EC).

15 01 10 * (Packaging containing residues of or contaminated with dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number

Transport	Not subject
-----------	-------------

14.2 Official transport name 14.3

Hazard class for transport

Danger number	
Class	
Classification code	

14.4 Packing group Packing

group Labels	

14.5 Environmental hazards

The symbol for environmentally hazardous substances	no
---	----

14.6 Special protective measures

Special provisions	
Limited quantities	

Railway (RID)

14.1 UN number

Transport	Not subject
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14.2 Official transport name 14.3

Hazard class for transport

Danger number	
Class	

Revised for: 2; 3; 4; 5; 6; 7; 8; 10.4; 11; 15; 16

Release date: 2014-11-04

Revision Date: 2015-07-17

Soudaflex 20 LM

Classification code	
14.4 Packing group	
Packing group	
Labels	
14.5 Environmental hazards	
The symbol for environmentally hazardous substances	no
14.6 Special protective measures	
Special provisions	
Limited quantities	

Inland waterways (ADN)

14.1 UN number	
Transport	Not subject
14.2 Official transport name 14.3 Hazard class for transport	
Class	
Classification code	
14.4 Packing group	
Packing group	
Labels	
14.5 Environmental hazards	
The symbol for environmentally hazardous substances	no
14.6 Special protective measures	
Special provisions	
Limited quantities	

The sea (IMDG / IMSBC)

14.1 UN number	
Transport	Not subject
14.2 Official transport name 14.3 Hazard class for transport	
Class	
14.4 Packing group	
Packing group	
Labels	
14.5 Environmental hazards	
Water pollutant	-
The symbol for environmentally hazardous substances	no
14.6 Special protective measures	
Special provisions	
Limited quantities	
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	
Annex II to MARPOL 73/78	

Air (ICAO-TI / IATA-DGR)

14.1 UN number	
Transport	Not subject
14.2 Official transport name 14.3 Hazard class for transport	
Class	
14.4 Packing group	
Packing group	
Labels	
14.5 Environmental hazards	
The symbol for environmentally hazardous substances	no
14.6 Special protective measures	
Special provisions	
limited quantity: maximum net quantity per package	

SECTION 15: Regulatory information

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

European legislation:

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Release date: 2014-11-04

Revision Date: 2015-07-17

Soudaflex 20 LM

FOF content Directive 2010/75 / EU

FOF levels	Note
4%	
49.6 g / l	

Indicative occupational exposure limit values (Directives 98/24 / EC, 2000/39 / EC and 2009/161 / EU)

Product name	Skin absorption
Xylene, all isomers	Skin

REACH Annex XVII - Restriction

Contains component (s) regulated by Annex XVII to Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

<p>Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Liquid dangerous in accordance with directives 6 ornamental articles, hazard categories according to Annex I to Regulation (EC) No 1907/2006, and / or a odor subject to necessary for tax purposes, and / or a odor subject to</p>	<p>substances or mixtures which 1. Before being used in xylene are considered dangerous in accordance with directives 6 ornamental articles, hazard categories according to Annex I to Regulation (EC) No 1907/2006, and / or a odor subject to necessary for tax purposes, and / or a odor subject to</p>	<p>are considered dangerous in accordance with directives 6 ornamental articles, hazard categories according to Annex I to Regulation (EC) No 1907/2006, and / or a odor subject to necessary for tax purposes, and / or a odor subject to</p> <p>6 can be used as fuel in ornamental oil lamps sold to the public, and 6 poses a hazard when</p> <p>Without prejudice to other Community provisions on the classification, packaging and labeling of dangerous substances and mixtures, suppliers shall ensure that the following requirements are met before placing on the market:</p> <p>a) Lamp oils marked with R65 or H304 and intended for sale to the public shall be visible, legible and indelibly marked with the following text: Keep lamps filled with this liquid other than smoke outlets for children , and from 1 December 2010 with the introduction of lamp oil, even in very small amounts or by sucking on the wick, can lead to life-threatening lung damage. b) Barbecue washcloths marked R65 or H304 and intended for sale to the public shall, from 1 December 2010, be legibly and indelibly marked with the following text: Before Fluid retention, even in very small amounts, can lead to life-threatening lung damage. c) Lamp oils and grilled washcloths marked R65 or H304 and intended for sale to the general public shall, from 1 December 2010, be packed in black opaque containers of not more than 1 liter.6. By 1 June 2014, the Commission shall ask the European Chemicals Agency to compile documentation in accordance with Article 69 of this Regulation with a view to prohibiting, if appropriate, grilling spark plugs and fuel for ornamental lamps marked with: R65 or H304 and intended for sale to the general public.7.</p> <p>Natural or legal persons who for the first time place lamp oils or grilled spark plugs marked R65 or H304 on the market must, no later than 1 December 2011 and every year thereafter, provide information on alternatives to lamp oils and grills. Water-resistant shoes marked with R65 or H304 to the competent authority of the Member State concerned.</p> <p>Member States shall keep this information available to the Commission.i</p>
<p>Xylene</p>	<p>Substances classified as flammable gases category 1 or 2, flammable liquids category 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3 , pyrophoric liquids category 1 or pyrophoric solids category 1, whether or not listed in Part 3 of Annex VI to that Regulation.</p>	<p>1. Not to be used as a substance or as mixtures in aerosol dispensers intended for sale to the general public as jewelry and for decorative purposes, e.g. 6 metal glitter which is mainly intended for decoration, 6 artificial snow and frost, 6 fart pillows, 6 spaghetti spray, 6 excrement imitations, 6 signal horns for parties, 6 decorative flakes and decorative foam, 6 artificial spider % t, 6 stink bombs.2. Without prejudice to other Community provisions on the classification, packaging and labeling of substances, suppliers shall, before placing on the market, ensure that the following text is displayed visibly, legibly and indelibly on aerosol containers: in aerosol containers. % ssigt brukí.3. However, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in Article 8 (1) (a) of Council Directive 75/324 / EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they meet the specified requirements.</p>
<p>4,4'-methylenediphenyl diisocyanate</p>	<p>Methylene diphenyl diisocyanate (MDI) including the following specific isomers: 4.4 in methylene diphenyl diisocyanate; 2,4-methylenediphenyl diisocyanate; 2,2-methylenediphenyl diisocyanate</p>	<p>1. Not to be placed on the market after 27 December 2010 as a constituent of mixtures in concentrations equal to or greater than 0.1% by weight of MDI for sale to the general public, unless suppliers The opening on the market shall ensure that the packaging: (a) contains protective gloves complying with the requirements of Council Directive 89/686 / EEC; other Community legislation on classification, packaging and labeling of substances and mixtures: i6 Persons already susceptible to diisocyanates may suffer from allergic reactions when using this product. 6 People with asthma, eczema or skin problems should avoid contact, including skin contact, with this product. 6 In poor ventilation conditions this product should only be used together with a protective mask with a suitable gas filter (type A1 according to standard EN 14387) together with a protective mask with a suitable gas filter (type A1 according to standard EN 14387) .2. However, point 1 does not apply to hot melt adhesives.</p>

Revised for: 2; 3; 4; 5; 6; 7; 8; 10.4; 11; 15; 16

Release date: 2014-11-04
Revision Date: 2015-07-17

Soudaflex 20 LM

National legislation Sweden

Soudaflex 20 LM

Information is missing

4,4'-methylenediphenyl diisocyanate

Sensitizing

S

xylene

Absorbed through the skin

H

Other relevant information

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Information is missing

4,4'-methylenediphenyl diisocyanate

IARC classification

3; 4,4'-methylenediphenyl diisocyanate and polymeric 4,4'-methylenediphenyl diisocyanate

xylene

IARC classification

3; Xylenes

TLV - Carcinogen

Xylene (all isomers); A4

15.2 Chemical Safety Assessment No

chemical safety assessment for the mixture has been performed.

SECTION 16: Other information

Full text of H-Statements mentioned in sections 2 and 3:

H226 Flammable liquid and vapor.

H304 May be fatal when driving if it enters the respiratory tract.

H312 Harmful in contact with skin.

H314 Causes serious skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful by inhalation.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs (lungs) due to prolonged or repeated inhalation exposure.

H373 May cause damage to organs (central nervous system, liver, kidneys) with prolonged or repeated exposure.

H400 Very toxic to aquatic organisms.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

(*)	MINIMUM CLASSIFICATION OF BIG
CLP (EU-GHS)	Classification, labeling and packaging (Globally Harmonized System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50%
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process very
vPvB	Persistent & very Bioaccumulative

M-factor

bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	1	Acute	BIG
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Particular concentration limits CLP 4,4'-

methylenediphenyl diisocyanate	C _y 5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 1)
	C _y 5%	Skin Irrit. 2; H315	CLP Annex VI (ATP 1)
	C _y 0.1%	Resp. Sens. 1; H334	CLP Annex VI (ATP 1)
	C _y 5%	STOT SE 3; H335	CLP Annex VI (ATP 1)

Revised for: 2; 3; 4; 5; 6; 7; 8; 10.4; 11; 15; 16

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Product number: 54830

15/16

Soudaflex 20 LM

The information in this safety data sheet is based on the data and samples that BIG has received. The safety data sheet has been compiled to the best of our ability and in accordance with the knowledge available at this time. The safety data sheet only provides guidelines for the safe handling, use, consumption, storage, transport and disposal of the substances / preparations / mixtures mentioned in section 1. New sources are compiled at regular intervals. safety data sheet. Only the very latest versions can be used. Old versions must be enlarged. Unless otherwise stated explicitly in the safety data sheet, the information does not apply to the substances / preparations / mixtures in purer form, in mixtures with other substances or in processes. The safety data sheet does not provide any quality specifications for the substances / preparations / mixtures in question. Following the instructions in this safety data sheet does not relieve the user of the obligation to take all measures that common sense, regulations and recommendations prescribe in the context, or that are necessary and / or useful in the specific uses. BIG does not guarantee that the information provided is correct or complete, and cannot be held responsible for changes made by third parties. This safety data sheet should only be used in the European Union, Switzerland, Iceland, Norway and Liechtenstein. All use outside this area is at your own risk. The use of this safety data sheet is subject to the license terms and limitation of liability regulated in your license agreement with BIG, or if these are not applicable, of BIG's general terms. All intellectual property rights in this magazine are BIG's property, distribution and reproduction are limited. Consult with the above mentioned agreements / license agreement with BIG for details.

SODAFLEX

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16/16