



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

1.1 Product identifier

Trade name : Decaflex

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

1.3 Details of the supplier of the safety data sheet

Company : Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire
United Kingdom
AL7 1BQ
Telephone : +44 (0)1707 394444

1.4 Emergency telephone number

Emergency telephone number : +44 (0)1707 363899 (available during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product : Mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Reproductive toxicity, Category 1B	H360D: May damage the unborn child.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

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



Flammable	R10: Flammable.
Carcinogenic Category 3	R40: Limited evidence of a carcinogenic effect.
Sensitising	R42/43: May cause sensitisation by inhalation and skin contact.
Irritant	R36: Irritating to eyes.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause



long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H226 H317 H319 H334 H351 H360D H412	Flammable liquid and vapour. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May damage the unborn child. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P201 P210 P261 P280 P284 Response: P304 + P340 P308 + P313 P370 + P378	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

- 261-879-6 bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate
- 618-498-9 Diphenylmethanediisocyanate, isomeres and homologues
- 202-966-0 4,4'-methylenediphenyl diisocyanate
- 227-534-9 diphenylmethane-2,4'-diisocyanate
- 220-250-6 1-ethylpyrrolidin-2-one
- 224-518-3 4-morpholinecarbaldehyde

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction., Restricted to profes-



sional users.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Diphenyl tolyl phosphate MCS 907-387-3 01-2119511174-52-XXXX	N; R50/53	Aquatic Acute ¹ ; H400 Aquatic Chronic ³ ; H412	>= 10 - < 20
bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate 59719-67-4 261-879-6 01-2119983487-19-XXXX	R43 Xi; R36 N; R51/53	Eye Irrit. ² ; H319 Skin Sens. ^{1B} ; H317 Aquatic Chronic ² ; H411	>= 5 - < 10
propyl acetate 109-60-4 203-686-1	F; R11 Xi; R36 R66 R67	Flam. Liq. ² ; H225 Eye Irrit. ² ; H319 STOT SE ³ ; H336	>= 3 - < 5
Diphenylmethanediisocyanate, isomers and homologues 9016-87-9 618-498-9	Carc.Cat. ³ ; R40 Xn; R20-R48/20 Xi; R36/37/38 R42/43	Acute Tox. ⁴ ; H332 Skin Irrit. ² ; H315 Eye Irrit. ² ; H319 Resp. Sens. ¹ ; H334 Skin Sens. ¹ ; H317 Carc. ² ; H351 STOT SE ³ ; H335 STOT RE ² ; H373	>= 1 - < 2,5
4,4'-methylenediphenyl diisocyanate 101-68-8 202-966-0 01-2119457014-47-XXXX	Carc.Cat. ³ ; R40 Xn; R20-R48/20 Xi; R36/37/38 R42/43	Acute Tox. ⁴ ; H332 Eye Irrit. ² ; H319 STOT SE ³ ; H335 Skin Irrit. ² ; H315 Resp. Sens. ¹ ; H334 Skin Sens. ¹ ; H317 Carc. ² ; H351 STOT RE ² ; H373	>= 1 - < 2,5



diphenylmethane-2,4'-diisocyanate 5873-54-1 227-534-9 01-2119480143-45-XXXX	Carc.Cat.3; R40 Xn; R20-R48/20 Xi; R36/37/38 R42/43	Acute Tox.4; H332 Eye Irrit.2; H319 STOT SE3; H335 Skin Irrit.2; H315 Resp. Sens.1; H334 Skin Sens.1; H317 Carc.2; H351 STOT RE2; H373	>= 0,1 - < 1
1-ethylpyrrolidin-2-one 2687-91-4 220-250-6 01-2119472138-36-XXXX	Repr.Cat.2; R61 Xi; R41	Eye Dam.1; H318 Repr.1B; H360D	>= 0,3 - < 0,5
4-morpholinecarbaldehyde 4394-85-8 224-518-3 01-2119987993-12-XXXX	R43	Skin Sens.1; H317	>= 0,1 - < 1
Substances with a workplace exposure limit :			
2-methoxy-1-methylethyl acetate 108-65-6 203-603-9 01-2119475791-29-XXXX Contains: 2-methoxypropyl acetate <= 1 %	R10	Flam. Liq.3; H226	>= 10 - < 20

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, 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 : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.



Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Asthmatic appearance
Allergic reactions
Excessive lachrymation
See Section 11 for more detailed information on health effects and symptoms.
- Risks : irritant effects
sensitising effects
toxic effects for reproduction
- May cause an allergic skin reaction.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Suspected of causing cancer.
May damage the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical
- Unsuitable extinguishing media : Water, 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 products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Deny access to unprotected persons.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. 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 application area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Pregnant women or women of child-bearing age should not be exposed to this product. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against electrostatic discharges.



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 : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

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

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters *	Basis *
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm 275 mg/m3	2000/39/EC
		STEL	100 ppm 550 mg/m3	2000/39/EC
		TWA	50 ppm 274 mg/m3	GB EH40
		STEL	100 ppm 548 mg/m3	GB EH40
propyl acetate	109-60-4	TWA	200 ppm 849 mg/m3	GB EH40
		STEL	250 ppm 1.060 mg/m3	GB EH40
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
diphenylmethane-2,4'-diisocyanate	5873-54-1	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Diphenylmethanediisocyanate	9016-87-9	urinary diamine:	Post task	GB EH40

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anate, isomeres and homologues		1µmol/mol creatinine (Urine)		BAT
4,4'-methylenediphenyl diisocyanate	101-68-8	urinary diamine: 1µmol/mol creatinine (Urine)	Post task	GB EH40 BAT
diphenylmethane-2,4'-diisocyanate	5873-54-1	urinary diamine: 1µmol/mol creatinine (Urine)	Post task	GB EH40 BAT

DNEL

bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate : End Use: **Workers**
 Exposure routes: **Inhalation**
 Potential health effects: **Long-term systemic effects**
 Value: **29,4 mg/m3**

End Use: **Workers**
 Exposure routes: **Skin contact**
 Potential health effects: **Long-term systemic effects**

End Use: **Consumers**
 Exposure routes: **Inhalation**
 Potential health effects: **Long-term systemic effects**
 Value: **6,25 mg/m3**

End Use: **Consumers**
 Exposure routes: **Skin contact**
 Potential health effects: **Long-term systemic effects**

End Use: **Consumers**
 Exposure routes: **Ingestion**
 Potential health effects: **Long-term systemic effects**

PNEC

bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate : **Fresh water**
 Value: **0,0186 mg/l**

Marine water
 Value: **0,00186 mg/l**

Fresh water sediment
 Value: **0,709 mg/kg**

Marine sediment
 Value: **0,0709 mg/kg**

Soil
 Value: **1,131 mg/kg**



8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses with side-shields
Eye wash bottle with pure water
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
- Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (0,4 mm),
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
- Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapor (Type A) and particulate filter
Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
P1: Inert material; P2: Xn; P3: T, T+
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

Environmental exposure controls

- General advice : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: various
Odour	: hydrocarbon-like
Odour Threshold	: No data available
Flash point	: 44 °C
Ignition temperature	: 333 °C
Lower explosion limit (Vol-%)	: 1,5 %(V)
Upper explosion limit (Vol-%)	: 10,8 %(V)
Flammability (solid, gas)	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
pH	: No data available
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Vapour pressure	: 0,0337 hPa
Density	: 1,4 g/cm ³ at 20 °C
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 7 mm ² /s at 40 °C
Relative vapour density	: No data available
Evaporation rate	: No data available

9.2 Other information

No data available



SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
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 : No data available

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.#

Components:

Diphenyl tolyl phosphate MCS:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Diphenylmethanediisocyanate, isomeres and homologues:

Acute oral toxicity : LD50 Oral (Rat): > 10.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9.400 mg/kg



4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l
Test atmosphere: dust/mist
Method: Expert judgement

1-ethylpyrrolidin-2-one:

Acute oral toxicity : LD50 Oral (Rat): > 3.200 mg/kg
Acute inhalation toxicity : LC50 (Rat): 5,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.#

Serious eye damage/eye irritation

Causes serious eye irritation.#

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.#

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.#

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.#

Reproductive toxicity

May damage the unborn child.

STOT - single exposure

Not classified based on available information.#

STOT - repeated exposure

Not classified based on available information.#

Aspiration toxicity

Not classified based on available information.#

SECTION 12: Ecological information

12.1 Toxicity

Components:



bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate :

Toxicity to daphnia and other aquatic invertebrates	: EC50: 87,1 mg/l, 48 h, <i>Daphnia magna</i> (Water flea)
Toxicity to algae	: EC50: 18,6 mg/l, 72 h, <i>Scenedesmus capricornutum</i> (fresh water algae)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

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

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- European Waste Catalogue : 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances
- Contaminated packaging : 15 01 10* packaging containing residues of or contaminated by dangerous substances



SECTION 14: Transport information

ADR

14.1 UN number	: 1263
14.2 Description of the goods	: PAINT RELATED MATERIAL
14.3 Class	: 3
14.4 Packing group	: III
Classification Code	: F1
Labels	: 3
Tunnel restriction code	: (D/E)
14.5 Environmentally hazardous	: no

IATA

14.1 UN number	: 1263
14.2 Description of the goods	: Paint related material
14.3 Class	: 3
14.4 Packing group	: III
Labels	: 3
14.5 Environmentally hazardous	: no

IMDG

14.1 UN number	: 1263
14.2 Description of the goods	: PAINT RELATED MATERIAL
14.3 Class	: 3
14.4 Packing group	: III
Labels	: 3
EmS Number 1	: F-E
EmS Number 2	: S-E
14.5 Marine pollutant	: no

14.6 Special precautions for user

No data available

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

Not applicable

SECTION 15: Regulatory information

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

Prohibition/Restriction

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Banned and/or restricted (Diphenylmethanediisocyanate, isomeres and homologues) (4,4'-methylenediphenyl diisocyanate)
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(diphenylmethane-2,4'-diisocyanate)
(1-ethylpyrrolidin-2-one)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH Information: All substances contained in our Products are
- preregistered or registered by our upstream suppliers, and/or
- preregistered or registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

VOC-CH (VOCV) : 20,5 %

VOC-EU (solvent) : 20,86 %

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002
Control of Substances Hazardous to Health Regulations 2002
The Management of Health and Safety at Work Regulations 1999
Health and Safety at Work Act 1974
Environmental Protection Act 1990 & Subsidiary Regulations

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms



Harmful



Dangerous for the environment

R-phrases(s)	:	R10 R36 R40 R42/43 R51/53	Flammable. Irritating to eyes. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	:	S23 S23 S36/37 S38 S45	Do not breathe spray. Do not breathe vapour. Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- 618-498-9 Diphenylmethanediisocyanate, isomeres and homologues
- 202-966-0 4,4'-methylenediphenyl diisocyanate
- 227-534-9 diphenylmethane-2,4'-diisocyanate

Special labelling of certain mixtures : Contains isocyanates. See information supplied by the manufacturer.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitisation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LD50	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no effect concentration
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

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|| Changes as compared to previous version !