

Fibcon 15

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazardous ingredients	: methylenediphenyl diisocyanate; 4-isocyanatosulphonyltoluene, tosyl isocyanate; dibutyltindilaurate
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P201 - Obtain special instructions before use. P260 - Do not breathe vapours. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, face protection, protective gloves. P284 - wear respiratory protection P302+P352 - IF ON SKIN: Wash skin thoroughly with mild soap and water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Extra phrases	: Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product Persons already sensitised to diisocyanates may develop allergic reactions when using this product This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methylenediphenyl diisocyanate	(CAS-No.) 26447-40-5 (EC-No.) 247-714-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-2119457015-45	< 45	Acute Tox. 4 (Inhalation), 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
4-isocyanatosulphonyltoluene, tosyl isocyanate	(CAS-No.) 4083-64-1 (EC-No.) 223-810-8 (EC Index-No.) 615-012-00-7 (REACH-no) 01-2119980050-47	< 0.3	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334
dibutyltindilaurate	(CAS-No.) 77-58-7 (EC-No.) 201-039-8	< 0.25	Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 STOT RE 1, H372 Skin Corr. 1C, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
methylenediphenyl diisocyanate	(CAS-No.) 26447-40-5 (EC-No.) 247-714-0 (EC Index-No.) 615-005-00-9 (REACH-no) 01-2119457015-45	(C >= 0.1) Resp. Sens. 1, H334 (C >= 5) Eye Irrit. 2, H319 (C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335
4-isocyanatosulphonyltoluene, tosyl isocyanate	(CAS-No.) 4083-64-1 (EC-No.) 223-810-8 (EC Index-No.) 615-012-00-7 (REACH-no) 01-2119980050-47	(C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335 (C >= 5) Eye Irrit. 2, H319

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Do not use : solvent. Thinner.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Carbon dioxide. Dry powder. Water spray.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire, product decomposes in. carbon oxides (CO and CO2). Nitrogen oxides. Hydrogen cyanide.
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5.3. Advice for firefighters

Precautionary measures fire	: Self-contained breathing apparatus when in close proximity to fire. Wear fire/flame resistant/retardant clothing.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate ventilation. Wear proper protective equipment.
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6.1.1. For non-emergency personnel

Protective equipment	: No special measures required.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
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6.2. Environmental precautions

Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment	: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel into suitable and closed container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Do not allow into drains or water courses. Ensure good ventilation of the work station. Do not allow contact with water.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in original container. Store in dry protected location to prevent any moisture contact. Protect from moisture.
Incompatible products	: Oxidizing agent.
Information on mixed storage	: Keep away from strong acids, strong bases and oxidizing agents. Water, humidity.
Storage area	: Store in a dry area.
Special rules on packaging	: Keep only in original container.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methylenediphenyl diisocyanate (26447-40-5)		
Austria	MAK (mg/m ³)	≈ 0.1 mg/m ³
Austria	MAK (ppm)	≈ 0.01 ppm
France	VME (mg/m ³)	0.1 mg/m ³
France	VME (ppm)	0.01 ppm
France	VLE (mg/m ³)	0.2 mg/m ³
France	VLE (ppm)	0.02 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	≈ 0.05 mg/m ³
Switzerland	MAK (mg/m ³)	≈ 0.02 mg/m ³
Switzerland	KZGW (mg/m ³)	≈ 0.02 mg/m ³
dibutyltindilaurate (77-58-7)		
France	VME (mg/m ³)	Tin (organic compounds), Sn, 0.1 mg / m ³ ; France; Weighted average exposure limit 8 h; VL: Illegal Guide value
France	VLE (mg/m ³)	Tin (organic compounds), Sn, 0.2 mg / m ³ ; France; Short time value; VL: Illegal Guide value

8.2. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Safety glasses. Gloves.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °C
Auto-ignition temperature	: > 480 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 1.25
Solubility	: Water: Hydrolyses
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ≈ 3900 mPa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water (moisture).

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

If contaminated by moisture, may form CO₂ gas pressure in containers.

10.5. Incompatible materials

amines.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

methylenediphenyl diisocyanate (26447-40-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.49 mg/l/4h

dibutyltindilaurate (77-58-7)	
LD50 oral rat	2071 mg/kg bodyweight (Rat; equivalent or similar to the OECD guideline 401; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; equivalent or similar to the OECD guideline 402; Experimental value)

Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable.
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

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Potential adverse human health effects and symptoms : No data available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May be dangerous for the environment. Prevent entry to sewers and public waters.
Ecology - water : May cause long-term adverse effects in the aquatic environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

methylenediphenyl diisocyanate (26447-40-5)	
LC50 fish 1	> 1000 mg/l 96 h - Danio rerio (zebra fish)
EC50 Daphnia 1	> 1000 mg/l 24 h - Daphnia Magna (water flea)
EC50 72h algae (1)	> 1640 mg/l Scenedesmus subspicatus
NOEC (chronic)	> 10 mg/l 21 d - Daphnia Magna (water flea)

dibutyltindilaurate (77-58-7)	
LC50 fish 1	2 mg/l (48 h; Pisces)
EC50 Daphnia 1	0.66 mg/l (24 h; Daphnia magna)
EC50 Daphnia 2	0.66 mg/l (48 h; Daphnia magna)
EC50 72h algae (1)	> 1 mg/l (OECD 201: Algae, Growth Inhibition Test, Scenedesmus subspicatus, Static System, Freshwater (Unsalted), Experimental Value)
Threshold limit algae 1	> 1 mg/l (72 h; Scenedesmus subspicatus; Growth Rate)

12.2. Persistence and degradability

Fibcon 15	
Persistence and degradability	No information available.

methylenediphenyl diisocyanate (26447-40-5)	
Persistence and degradability	Not readily biodegradable.

dibutyltindilaurate (77-58-7)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Fibcon 15	
Bioaccumulative potential	No available data.

dibutyltindilaurate (77-58-7)	
BCF fish 1	31 - 813 (7 days; Carassius carassius)
Log Pow	4.05 (QSAR, 3.12; Test Data; 4.44; Experimental value, OECD 107: Partition coefficient (n-octanol / water): shake-flask, 20.8 ° C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
dibutyltindilaurate (77-58-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : Reacts on contact with water releasing carbon dioxide (CO2).
Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Do not discharge into drains or the environment.
Product/Packaging disposal recommendations : Dispose of in accordance with relevant local regulations.

SECTION 14: Transport information

In accordance with ADR

ADR	
14.1. UN number	
Not regulated	

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ADR
14.2. UN proper shipping name
Not regulated
14.3. Transport hazard class(es)
Not regulated
14.4. Packing group
Not regulated
14.5. Environmental hazards
Not regulated
No supplementary information available

14.6. Special precautions for user

- Overland transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Fibcon 15 - 4-isocyanatosulphonyltoluene, tosyl isocyanate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Fibcon 15 - 4-isocyanatosulphonyltoluene, tosyl isocyanate
56. Methylenediphenyl diisocyanate (MDI)	methylenediphenyl diisocyanate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

France

Occupational diseases : RG 62 - Affections professionnelles provoquées par les isocyanates organiques

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to waters (Classification according to AwSV, Annex 1)
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
 SZW-lijst van mutagene stoffen : None of the components are listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : dibutyltindilaurate is listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : dibutyltindilaurate is listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1

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Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

FDS UE (Annexe II REACH)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product