

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Product name** : Helmitin® 49631**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-
stance/Mixture : AdhesiveRecommended restrictions
on use : For industrial use only.**1.3 Details of the supplier of the safety data sheet**

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13
PT-4486-851 Mindelo - Vila do Conde
+351 229 288 200E-mail address of person
responsible for the SDS : EU-MSDS@hbfuller.com**1.4 Emergency telephone number**

Emergency telephone number : +44 1235 239 670 (24 hours)

National Poisons Information Centre (NPIC): 01 809 2566 (24 hours)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

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

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.

Specific target organ toxicity - single exposure, Category 3, Central nervous H336: May cause drowsiness or dizziness.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.

Precautionary statements :

Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing mist or vapours.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

ethyl acetate
Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propy-
lidenetriethanol
p-toluenesulphonyl isocyanate
m-tolylidene diisocyanate

Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

"As from 24 August 2023 adequate training is required before industrial or professional use."

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 50 - < 70
Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylenetri-methanol	53317-61-6 500-120-8	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 30 - < 50
p-toluenesulphonyl isocyanate	4083-64-1 223-810-8 615-012-00-7 01-2119980050-47-0000	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 STOT SE 3; H335 (Respiratory system) EUH014 specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 0,1 - < 1
m-tolylidene diisocyanate	26471-62-5 247-722-4 615-006-00-4 01-2119454791-34-	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334	>= 0,25 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

	0000	Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 <hr/> specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	
4-methyl-m-phenylene diisocyanate	584-84-9 209-544-5 615-006-00-4 01-2119486974-18-0000	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 <hr/> specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	>= 0,1 - < 0,25
2-methyl-m-phenylene diisocyanate	91-08-7 202-039-0 615-006-00-4	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 <hr/> specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	>= 0,025 - < 0,1
tosyl chloride	98-59-9 202-684-8	Ox. Sol. 3; H272 Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317	< 0,1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- | | | |
|-------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice | : | If on clothes, remove clothes.
Move the victim to fresh air.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may even occur after several hours;
therefore medical observation for at least 48 hours after the
accident. |
| If inhaled | : | Remove person to fresh air. If signs/symptoms continue, get
medical attention.
In case of unconsciousness bring patient into stable side posi-
tion for transport. |
| In case of skin contact | : | Wash off immediately with soap and plenty of water while
removing all contaminated clothes and shoes.
If skin irritation persists, call a physician. |
| In case of eye contact | : | Flush eyes with water at least 15 minutes. Get medical atten-
tion if eye irritation develops or persists. |
| If swallowed | : | If accidentally swallowed obtain immediate medical attention.
Rinse mouth with water.
If conscious, drink plenty of water.
Do NOT induce vomiting.
If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- | | | |
|------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local cir-
cumstances and the surrounding environment.
Water mist
Foam
Dry powder
Carbon dioxide (CO ₂) |
|------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

Unsuitable extinguishing media : Water with a full water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No further relevant information available.

5.3 Advice for firefighters

Special protective equipment for firefighters : No special protective measures against fire required.

Further information : In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all sources of ignition.
Use personal protective equipment.
Use breathing protection against the effects of fumes/dust/aerosol.
Evacuate personnel to safe areas.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
Prevent the material from reaching sewage system, holes and cellars.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Non-sparking tools should be used.
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.
Dispose of contaminated material as waste according to section 13.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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

- Advice on safe handling : Avoid formation of dust and aerosols.
Use only with adequate ventilation.
Take note of emission threshold.
Use solvent-proof equipment.
Ensure that suitable extractors are available on processing machines.
Handle with care.
Keep eye wash bottle available on working place.
Avoid release to the environment.
Keep away from children.
- Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. May form explosive mixtures in air. Highly volatile, flammable constituents are released during processing. In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep dark, cool and dry. Store in cool place.
- Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool place. Heat will increase pressure and may lead to the container exploding.

7.3 Specific end use(s)

- Specific use(s) : No further relevant information available.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version 1.0 Revision Date: 03.04.2022 SDS Number: 100000017321 Date of last issue: -
Date of first issue: 03.04.2022

ethyl acetate	141-78-6	OELV - 8 hrs (TWA)	200 ppm 734 mg/m ³	IE OEL
		OELV - 15 min (STEL)	400 ppm 1.468 mg/m ³	IE OEL
		STEL	400 ppm 1.468 mg/m ³	2017/164/EU
Further information: Indicative				
		TWA	200 ppm 734 mg/m ³	2017/164/EU
Further information: Indicative				
m-tolylidene diisocyanate	26471-62-5	OELV - 8 hrs (TWA)	0,02 mg/m ³ (As -NCO)	IE OEL
Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				
		OELV - 15 min (STEL)	0,07 mg/m ³ (As -NCO)	IE OEL
Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				
4-methyl-m-phenylene diisocyanate	584-84-9	OELV - 8 hrs (TWA) (inhalable fraction)	0,001 ppm (As -NCO)	IE OEL
Further information: Inhalable Fraction and Vapour (IFV) - The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases., Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				
		OELV - 15 min (STEL) (inhalable fraction)	0,003 ppm (As -NCO)	IE OEL
Further information: Inhalable Fraction and Vapour (IFV) - The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases., Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				
2-methyl-m-phenylene diisocyanate	91-08-7	OELV - 8 hrs (TWA) (inhalable fraction)	0,001 ppm (As -NCO)	IE OEL
Further information: Inhalable Fraction and Vapour (IFV) - The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases., Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				
		OELV - 15 min (STEL) (inhalable fraction)	0,003 ppm (As -NCO)	IE OEL
Further information: Inhalable Fraction and Vapour (IFV) - The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases., Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis				

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version 1.0 Revision Date: 03.04.2022 SDS Number: 100000017321 Date of last issue: -
Date of first issue: 03.04.2022

	tion and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases., Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
tosyl chloride	98-59-9	OELV - 15 min (STEL)	5 mg/m ³	IE OEL

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ethyl acetate	Workers	Inhalation	Acute systemic effects	1468 mg/m ³
	Workers	Inhalation	Acute local effects	1468 mg/m ³
	Workers	Inhalation	Long-term systemic effects	734 mg/m ³
m-tolylidene diisocyanate	Workers	Inhalation	Acute systemic effects	0,14 mg/m ³
	Workers	Dermal	Acute local effects	0,14 mg/m ³
	Workers	Inhalation	Long-term systemic effects	0,035 mg/m ³
	Workers	Inhalation	Long-term local effects	0,035 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ethyl acetate	Fresh water	0,26 mg/l
	Intermittent use/release	1,65 mg/l
	Marine water	0,026 mg/l
	Fresh water sediment	1,25 mg/kg
	Marine sediment	0,125 mg/kg
	Soil	0,24 mg/kg
	Sewage treatment plant	650 mg/l
m-tolylidene diisocyanate	Fresh water	0,013 mg/l
	Marine water	0,00125 mg/l
	Sewage treatment plant	> 1 mg/l
	Soil	> 1 mg/kg

8.2 Exposure controls

Engineering measures

Please take care on national and local requirements.

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

Remarks : The glove material has to be impermeable and resistant to the product/the substance/the preparation.
The exact break through time can be obtained from the protective glove producer and this has to be observed.
The gloves need to be disposed after the penetration time and replaced by new ones.
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

As protection from splashes gloves made of the following materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Skin and body protection : Protective clothing

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.
In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Ensure that suitable extractors are available on processing machines.

Protective measures : Keep away from food, drink and animal feedingstuffs.
Instantly remove any soiled and impregnated garments.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

Wash hands before breaks and immediately after handling the product.
Avoid contact with the eyes and skin.
Store protective clothing separately.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state	: liquid
Colour	: colourless
Odour	: characteristic
Odour Threshold	: is not determined
Melting point/freezing point	: is not determined
Boiling point/boiling range	: 75 °C
Flash point	: -4 °C
Auto-ignition temperature	: is not determined
Decomposition temperature	: not applicable
pH	: is not determined
Solubility(ies)	
Water solubility	: not miscible or difficult to mix
Partition coefficient: n-octanol/water	: no data available
Vapour pressure	: 100 hPa (20 °C)
Density	: 1,03 g/cm ³
Relative vapour density	: is not determined

9.2 Other information

Explosives	: Product is not explosive. However, formation of explosive vapour/air mixtures is possible.
Evaporation rate	: is not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

SECTION 10: Stability and reactivity**10.1 Reactivity**

No further relevant information available.

10.2 Chemical stability

No decomposition if used according to the specifications.

10.3 Possibility of hazardous reactions

Hazardous reactions : Develops readily flammable vapours/fumes.

10.4 Conditions to avoid

Conditions to avoid : No further relevant information available.

10.5 Incompatible materials

Materials to avoid : No further relevant information available.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

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

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

Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: Calculation method

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

Components:**p-toluenesulphonyl isocyanate:**

Acute inhalation toxicity : LC50 (Rat): > 640 ppm

Exposure time: 1 h

Test atmosphere: vapour

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

m-tolylidene diisocyanate:

Acute oral toxicity : LD50 Oral (Rat): 3.360 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,1 mg/l
Exposure time: 4 h**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil**Product:**Mobility : Medium: Soil
Remarks: Do not allow product to reach ground water, water bodies or sewage system., Very toxic to aquatic organisms, Toxic effects on fish and plankton, Danger to drinking water if even extremely small quantities leak into soil.**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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

12.6 Endocrine disrupting properties**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Do not dispose of with domestic refuse.
Do not dispose of waste into sewer.
Hand over to disposers of hazardous waste.
The generation of waste should be avoided or minimized wherever possible.
Incinerate under controlled conditions in accordance with all local and national laws and regulations.
Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Waste accruing during cleaning:

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

Waste packaging:

15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 04 metallic packaging
15 01 10* packaging containing residues of or contaminated by dangerous substances.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

Contaminated packaging : Disposal must be made according to official regulations.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR : UN 1866

RID : UN 1866

IMDG : UN 1866

IATA : UN 1866

14.2 UN proper shipping name

ADR : RESIN SOLUTION

RID : RESIN SOLUTION

IMDG : RESIN SOLUTION

IATA : RESIN SOLUTION

14.3 Transport hazard class(es)

ADR : 3

RID : 3

IMDG : 3

IATA (Cargo) : 3

14.4 Packing group

ADR : UN1866

RID : UN1866

IMDG

Packing group : II

Labels : 3

EmS Code : F-E, S-E

IATA (Cargo) : UN1866

IATA_P (Passenger) : UN1866

14.5 Environmental hazards

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3
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m-tolylidene diisocyanate
4-methyl-m-phenylene diisocyanate
2-methyl-m-phenylene diisocyanate
acetic acid

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: not applicable
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: not applicable
-------------------------------------------------------------------------	------------------

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: not applicable
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RoHS: 2011/65/EU, Restriction of Hazardous Substances	: not applicable
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Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: not applicable
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REACH - List of substances subject to authorisation (Annex XIV)	: not applicable
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 61,50 %, 633,4 g/l

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
REACH	: On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

SECTION 16: Other information

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H272	: May intensify fire; oxidizer.
H290	: May be corrosive to metals.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal 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.
H412	: Harmful to aquatic life with long lasting effects.
EUH014	: Reacts violently with water.
EUH066	: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Met. Corr.	: Corrosive to metals
Ox. Sol.	: Oxidizing solids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
IE OEL	: Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours
IE OEL / OELV - 8 hrs (TWA)	: Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL)	: Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Helmitin® 49631

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03.04.2022	100000017321	Date of first issue: 03.04.2022

of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Contact Point : Prepared by: Global Regulatory Department
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Classification of the mixture:

Flam. Liq. 2	H225
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
STOT SE 3	H336

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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