Created: 26 Aug 2024

SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

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

1.1 Product identifier

- Product Name: Quickmast 110 Base

Other means of Identification

- UFI: -
- Product Part Number: C05/04/03/020-B

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

- Use of the substance/mixture: Resin part of polyurethane resin based injection system

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: DCP Lebanon
- Address of Supplier: Port, Jamarek Street
  Rbeiz Bldg
  Beirut, Lebanon
- Telephone: + 961 1 444 562
- Fax: + 961 1 444 563
- Email: info.lebanon@dcp-int.com

1.4 Emergency telephone number

- Emergency Telephone: + 961 1 444 562 (available during work hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Resp. Sens. 1, Skin Sens. 1, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Carc. 2, STOT SE 3, STOT RE 2

2.2 Label elements

- Signal Word: Danger

Hazard statements

H332 - Harmful if inhaled.

SECTION 2: Hazards identification (....)

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

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

H317 - May cause an allergic skin reaction.

EUH 208 - Contains Diphenylmethanediisocyanate, isomers and homologues, Diphenylmethane-4,4'-diisocyanate, Diphenylmethane-2,4'-di-isocyanate, isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethandiyl))and alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy(methyl-1,2-ethandiyl))). May produce an allergic reaction.

Precautionary statements

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P405 - Store locked up.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P285 - In case of inadequate ventilation wear respiratory protection.

P281 - Use personal protective equipment as required.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ .

P201 - Obtain special instructions before use.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

Dispose of contents/container to an authorised waste collection point.

2.3 Other hazards

- As from 24 August 2023 adequate training is required before industrial or professional use
- Contains: Diphenylmethandiisocyanate, isomers and homologues
  4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Diphenylmethandiisocyanate, isomers and homologues

CAS Number:	9016-87-9
EC Number:	618-498-9

SECTION 3: Composition/information on ingredients (....)

Concentration:	40 - 60%
Categories:	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT SE 3, STOT RE 2
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS07, GHS08
H Statements:	H315, H317, H319, H332, H334, H335, H351, H373

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

CAS Number:	101-68-8
EC Number:	202-966-0
Concentration:	20 - 30%
Categories:	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT SE 3, STOT RE 2
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS08, GHS07
H Statements:	H351, H332, H373, H319, H335, H315, H334, H317

isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly (oxy(methyl-1,2-ethandiyl))and alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy (methyl-1,2-ethandiyl)))

CAS Number:	61111-77-1
EC Number:	855-679-3
Concentration:	10 - 20%
Categories:	Resp. Sens. 1, Skin Sens. 1
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS08
H Statements:	H334, H317

propylene carbonate

CAS Number:	108-32-7
EC Number:	203-572-1
Concentration:	1 - 10%
Categories:	Eye Irrit. 2
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS07
H Statements:	H319

SECTION 3: Composition/information on ingredients (....)

Dimethyl Succinate

CAS Number:	106-65-0
EC Number:	203-419-9
Concentration:	1 - 10%
Categories:	Eye Irrit. 2
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS07
H Statements:	H319

Dimethyl Adipate

CAS Number:	627-93-0
EC Number:	211-020-6
Concentration:	1 - 10%
Categories:	Acute Tox. 4
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS07
H Statements:	H302

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate

CAS Number:	5873-54-1
EC Number:	227-534-9
Concentration:	0 - 1%
Categories:	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT SE 3, STOT RE 2
Specific Concentration Limits:	No information available
M factor:	No information available
Acute toxicity estimate:	Not available
Symbols:	GHS08, GHS07
H Statements:	H351, H332, H373, H319, H335, H315, H334, H317

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention if you feel unwell.

Contact with skin

SECTION 4: First aid measures (....)

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTRE or doctor if you feel unwell.

Contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

Ingestion

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTRE or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

Irritating to eyes

Contact with skin

Causes irritation

May cause an allergic skin reaction.

Inhalation

Causes irritation

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

Ingestion

Harmful if swallowed

4.3 Indication of any immediate medical attention and special treatment needed

- No information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Extinguish with foam, carbon dioxide, dry powder or water spray.
- Do not use water jets
- Reacts slowly with water

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures (....)

- May give off noxious and toxic fumes in a fire

5.3 Advice for firefighters

- Do not allow run-off water to enter sewers and water sources.
- Wear chemical protection suit and breathing apparatus
- Wear self contained breathing apparatus and full protective clothing

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Ventilate area
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Soak up with inert absorbent
- This material and its container must be disposed of as hazardous waste
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.4 Reference to other sections

- For personal protection see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash thoroughly after handling.
- Avoid contact with skin and eyes
- Adopt best Manual Handling considerations when handling, carrying and dispensing.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Ensure adequate ventilation
- Call a POISON CENTRE or doctor if you feel unwell.
- Get medical advice/attention if you feel unwell.
- Wash contaminated clothing before reuse.
- Dispose of contents/container to an authorised waste collection point

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage (....)

- Store locked up.
- Store in a cool, dry, well ventilated area.
- Keep container tightly closed.
- Shelf life: 1 years

7.3 Specific end use(s)

- No information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

Belgium - Occupational Exposure Limits
TWA - 8 hour 0.052 mg/m3.
Regulatory Reference: Koninklijk besluit/Arrete royal 11/05/2021

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

DNEL (Industry; dermal, short term local effects): 28.7 mg/cm²
DNEL (Industry; dermal, short term systemic effects): 50 mg/kg bw/day
DNEL (Industry; inhalational, short term local effects): 0.1 mg/m³
DNEL (Industry; inhalational, short term systemic effects): 0.1 mg/m³
DNEL (Industry; inhalational, long term local effects): 0.05 mg/m³
DNEL (Industry; inhalational, long term systemic effects): 0.05 mg/m³
PNEC (Fresh water): > 1 mg/l
PNEC (Marine water): > 0.1 mg/l
PNEC (Soil): > 1 mg/kg dwt
PNEC (STP): > 1 mg/l

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate

DNEL (Industry; dermal, short term local effects): 28.7 mg/cm²
DNEL (Industry; dermal, short term systemic effects): 50 mg/kg bw/day
DNEL (Industry; inhalational, short term local effects): 0.1 mg/m³
DNEL (Industry; inhalational, short term systemic effects): 0.1 mg/m³
DNEL (Industry; inhalational, long term local effects): 0.05 mg/m³
DNEL (Industry; inhalational, long term systemic effects): 0.05 mg/m³
PNEC (Fresh water): > 1 mg/l
PNEC (Marine water): > 0.1 mg/l
PNEC (Soil): > 1 mg/kg dwt
PNEC (STP): > 1 mg/l

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection (....)

- Wear suitable protective clothing, eye/face protection and gloves
- In case of inadequate ventilation wear respiratory protection.
- Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Brown
- Odour: Characteristic odour
- Melting point/Range: Not available
- Boiling Point/Range: No data available
- Flammability: No information available
- Lower explosive limit: NA% (in air)
- Upper explosive limit: NA% (in air)
- Flashpoint: >93°C
- Autoignition Temperature: NA
- Decomposition temperature: NA
- pH: No information available
- Kinematic viscosity: NA mm^2/s
- Solubility: NA
- Vapour Pressure: Not available
- Density: 1.15 g/cm^3 at 25 °C
- Vapour Density: Not available
- Particle characteristics: NA

9.2 Other information

9.2.1 Information with Regard to Physical Hazard Classes
No Information Available

9.2.2 Other Safety Characteristics
No Information Available

SECTION 10: Stability and reactivity

10.1 Reactivity

- Reacts with moist air or water

10.2 Chemical stability

- Considered stable under normal conditions
- Reacts with water

10.3 Possibility of hazardous reactions

- Reacts with water

SECTION 10: Stability and reactivity (....)

- Reaction products may include carbon dioxide
- Generates heat on addition to water (exothermic)
- In contact with water releases flammable gases.

10.4 Conditions to avoid

- Avoid exposure to high temperature or direct sunlight.
- Avoid contact with moisture

10.5 Incompatible materials

- Avoid contact with water
- Reacts with amines
- Incompatible with alcohols
- Incompatible with acids and alkalis

10.6 Hazardous decomposition products

- Decomposition products may include nitrogen and carbon oxides
- Decomposition products may include hydrogen cyanide
- Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours including Hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Harmful if inhaled.

Quickmast 110
ATE CLP (gasess): 4500 ppmv/4h
ATE CLP (vapours): 11 mg/l/4h
ATE CLP (dust, mist): 1.5 mg/l/4h

Diphenylmethandiisocyanate, isomers and homologues

LD_{50} (oral, rat): > 10000 mg/kg
LD_{50} (dermal, rabbit): > 9400 mg/kg
LC_{50} (inhalation, rat): 0.31 mg/l/4h
NOAEL (chronic, oral, animal/male, 2 years): 0.2 mg/kg bw
NOAEL (chronic, oral, animal/male, 2 years): 0.2 mg/kg bw
LOAEL (animal/male, F0/P): 1 mg/kg
LOAEL (animal/female, F0/P): 1 mg/kg
STOT-single exposure: May cause respiratory irritation
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

LD_{50} (dermal, rabbit): > 9400 mg/kg
LD_{50} (oral, rat): > 2000 mg/kg
NOAEL (chronic, oral, animal/male, 2 years): 0.2 mg/kg bw
NOAEL (chronic, oral, animal/female, 2 years): 0.2 mg/kg bw

SECTION 11: Toxicological information (....)

LOAEL (animal/male, F0/P): 1 mg/kg

LOAEL (animal/female, F0/P): 1 mg/kg

STOT-single exposure: May cause respiratory irritation

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure

propylene carbonate

LD_{50} (dermal, rabbit): > 2000 mg/kg

LD_{50} (oral, rat): > 5000 mg/kg

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate

LD_{50} (dermal, rabbit): > 9400 mg/kg

LD_{50} (oral, rat): > 2000 mg/kg

NOAEL (chronic, oral, animal/male, 2 years): 0.2 mg/kg bw

NOAEL (chronic, oral, animal/female, 2 years): 0.2 mg/kg bw

LOAEL (animal/male, F0/P): 1 mg/kg

LOAEL (animal/female, F0/P): 1 mg/kg

STOT-single exposure: May cause respiratory irritation

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure

Dimethyl Succinate

LD_{50} (dermal, rabbit): > 5 mg/kg

LD_{50} (oral, rat): > 5 mg/kg

Dimethyl Adipate

LD_{50} (oral, rat): 1902 mg/kg

May cause skin irritation.

propylene carbonate

pH: 7

Causes serious eye irritation.

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

Suspected of causing cancer.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
No Informaiotion Availble

11.2.2 Information on other hazards
No Information Available

SECTION 12: Ecological information

12.1 Toxicity

- No information available

SECTION 12: Ecological information (....)

Diphenylmethandiisocyanate, isomers and homologues

LC_{50} - Fish: > 100 mg/l
EC_{50} - Crustacea: >100 mg/l
EC_{50} 72h - Algae: > 100 mg/l
ErC_{50} algae: > 1.64 mg/l
NOEC (chronic): > 100 mg/l Eisenia fetida

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

LC_{50} - Fish: > 100 mg/l
EC_{50} - Crustacea: >100 mg/l
EC_{50} 72h - Algae: > 100 mg/l
ErC_{50} algae: > 1.64 mg/l
NOEC (chronic): > 100 mg/l Eisenia fetida

propylene carbonate

LC_{50} - Fish: > 1000 mg/l cyprinus carpi
EC_{50} - Crustacea: >1000 mg/l Daphnia magna
EC_{50} 72h - Algae: > 900 mg/l Desmodesmus subsicatus

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate

LC_{50} - Fish: > 100 mg/l
EC_{50} - Crustacea: >100 mg/l
EC_{50} 72h - Algae: > 100 mg/l
ErC_{50} algae: > 1.64 mg/l
NOEC (chronic): > 100 mg/l Eisenia fetida

12.2 Persistence and degradability

Quickmast 110
Rapidly degradable

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)
Not readily biodegradable, {0}% biodegradation {1}

Diphenylmethane-4,4'-diisocyanate (101-68-8)
{0}% biodegradation {1}

Propylene Carbonate (108-32-7)
Readily biodegradable
Biodegradation: 90 - 100 % 14 days

Isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly (oxy(methyl-1,2-ethanediyl)) and alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy (methyl-1,2-ethanediyl))) (61111-77-1)
Rapidly degradable

Dimethyl Succinate (106-65-0)
Rapidly degradable

SECTION 12: Ecological information (....)

Dimethyl adipate (627-93-0)
Rapidly degradable

- No information available

12.3 Bioaccumulative potential

Propylene carbonate (108-32-7)
Partition coefficient n-octanol/water (Log Kow): -0.41
Bioaccumulative potential: No bioaccumulation

Dimethyl Succinate (106-65-0)
Partition coefficient n-octanol/water (Log Pow): 0.35

Dimethyl Adipate (627-93-0)
Partition coefficient n-octanol/water (Log Pow): 1.03

- No information available

12.4 Mobility in soil

Propylene Carbonate (108-32-7)
Organic Carbon Normalized Adsorption Coefficient (Log Koc): 14.85

12.5 Results of PBT and vPvB assessment

- No information available

12.6 Endocrine disrupting properties

- No information available

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Avoid release to the environment. Refer to special instructions/Safety data sheets
- Do not empty into drains - dispose of this material and container in a safe way
- Dispose of contents/container to an authorised waste collection point

SECTION 14: Transport information

14.1 Air (ICAO/IATA)

- Not classified as hazardous for transport

14.2 Road/Rail (ADR/RID)

- Not classified as hazardous for transport

14.3 Sea (IMDG)

- Not classified as hazardous for transport

SECTION 14: Transport information (....)

14.4 Environmental hazards

- No information available

14.5 Special precautions for user

- No information available

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

- No information available

14.7 Maritime transport in bulk according to IMO instruments

- No information available

SECTION 15: Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. 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. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure. GHS07: exclamation mark.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.

--- end of safety datasheet ---

.