

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

CLC hardener 10

version 1.5
Revised on:
02/27/2024

Date of last issue: August 17, 2022
Date of first issue: February 19, 2018

ge exposure, category 3, respiratory
system

2.2 Labeling elements

Labeling (REGULATION (EC) No. 1272/2008) Hazard

pictograms :



Signal word :

Danger

Danger warnings :

H226 Flammable liquid and vapor.
H317 May cause allergic skin reactions. Harmful if
H332 inhaled.
H335 May irritate the respiratory tract.
H336 May cause drowsiness and dizziness.

Additional hazard
warnings :

EUH066 Repeated exposure may cause dry or cracked
skin.

safety instructions :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open
flames and other sources of ignition. Do not
smoke.
P261 Avoid breathing mist or vapor. Wear protective
P280 gloves/protective clothing/eye protection/face
protection/hearing protection.

Reaction:

P303 + P361 + P353 IF IN CONTACT WITH SKIN
(or hair): Remove all contaminated clothing
immediately. Wash skin with water.

P304 + P340 + P312 IF INHALED: Direct the person to the
Bring fresh air and ensure unhindered
breathing. If you feel unwell
Call a POISON CENTER/doctor.

P370 + P378 In case of fire: Use dry sand, extinguishing
powder or alcohol-resistant foam to
extinguish.

Hazardous component(s) for labeling:

aliphatic polyisocyanate n-
butyl acetate
Hexamethylene diisocyanate

Additional marking EUH204

Contains isocyanates. Can cause allergic reactions.

"As of August 24, 2023, appropriate training must be provided before
industrial or commercial use."

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2.3 Other dangers

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Ecological information: The substance/mixture does not contain any ingredients required under REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1 % or more have endocrine disrupting properties.

Toxicological information: The substance/mixture does not contain any ingredients required under REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1 % or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

chemical characterization : Industrial paint

ingredients

Chemical name	CAS no. EC no. INDEX no. registration number mer	classification	concentration (% w/w)
aliphatic polyisocyanates	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (respiratory system)	> = 70 - < 90
Hexamethylene diisocyanate	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (respiratory system) Specific concentration ration limits Resp. Sens. 1; H334 > = 0.500000% Skin Sens. 1; H317 > = 0.500000%	> = 0.1 - < 0.5
n-Butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (central nervous system) tem)	> = 20 - < = 30

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		EUH066	
aliphatic polyisocyanates	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (respiratory system)	> = 70 - < 90
n-Butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (central nervous system) tem) EUH066	> = 20 - < 30
Hexamethylene diisocyanate	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (respiratory system) Specific concentration ration limits Resp. Sens. 1; H334 > = 0.500000% Skin Sens. 1; H317 > = 0.500000%	> = 0.1 - < 0.5

The explanation of the abbreviations can be found in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General

information	: Move those affected out of the danger area. Show this safety data sheet to the attending physician. Do not leave those affected unattended.
After inhalation	: Contact a doctor or poisoning treatment center immediately. If you are unconscious, lie on your side and seek medical advice.
after skin contact	: If on skin, rinse well with water. If on clothing, take off clothes.
After eye contact	: Rinse eyes with water as a precaution. Remove contact lenses. Protect uninjured eyes. Keep your eyes wide open when rinsing. If eye irritation persists, consult a specialist.
After swallowing	: Keep airways clear.

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

If the problems are persistent, consult a doctor. Take the patient to a hospital immediately.

4.2 Most important acute and delayed symptoms and effects Risks

: May cause allergic skin reactions. Harmful if inhaled.
May irritate the respiratory tract.
May cause drowsiness and dizziness. Repeated exposure may cause dry or cracked skin.

May cause allergic skin reactions. Harmful if inhaled.
May irritate the respiratory tract.
May cause drowsiness and dizziness. Repeated exposure may cause dry or cracked skin.

4.3 Information about immediate medical attention or special treatment

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry extinguishing agent

Unsuitable extinguishing agents : Full water jet

5.2 Special hazards arising from the substance or mixture

Special hazards when fighting fires : Do not allow runoff from firefighting to enter wastewater or watercourses.

Dangerous combustion products : No dangerous combustion products known

5.3 Advice for firefighting

Special protective equipment: for firefighting : In case of fire, use respirator mask that is independent from outside air.

More information : Collect contaminated firefighting water separately and must not enter the sewage system.
Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations

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become.
To ensure safety in the event of a fire, store cans separately and
securely.
Use water spray to cool completely sealed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal preferences
visual measures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Bring people to safety.
Beware of accumulating vapors that may form explosive
concentrations. Fumes can accumulate in low lying areas.

6.2 Environmental protection measures

Environmental protection measures : Take precautions to ensure that the product does not enter the drains
arrived.
Prevent further leaks or spills if safe to do so.

If water or sewerage is contaminated, inform the responsible
authorities.

6.3 Methods and materials for containment and cleaning up

Cleaning procedures : Contain and contain spills with non-combustible absorbent
material (e.g. sand, soil, diatomaceous earth, vermiculite) and
place in containers for disposal in accordance with local/
national regulations (see Section 13).

6.4 Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Advice for safe handling Avoid aerosol formation. Do
not breathe fumes/dust.
Avoid exposure - obtain special instructions before use.

Avoid contact with eyes and skin. For personal protective
equipment see section 8. Do not eat, drink or smoke in the
area of application. Take measures against electrostatic
charges. Ensure sufficient air exchange and/or extraction in
the work rooms.

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Information about fire and explosion protection : Open container carefully as contents may be under pressure. Rinse water should be disposed of in accordance with local and national regulatory requirements. Persons prone to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory problems should not be involved in any processing involving this mixture. Do not spray on a flame or glowing object. Take precautions to avoid electrostatic discharges (these could ignite organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : do not eat and drink during work. Do not smoke while working. Wash hands before breaks and at the end of work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers : Smoking prohibited. Keep container tightly closed in a dry, well-ventilated place. Close opened containers carefully and store upright to prevent any leakage. Notes on the label. Electrical equipment/equipment must correspond to the latest safety technology.

Storage class (TRGS 510) :3

Further information on shelf life : No decomposition if stored and used as intended.

7.3 Specific end uses

SECTION 8: Exposure controls/personal protection

8.1 Parameters to be monitored

Occupational limits

ingredients	CAS no.	Value type (type of exposure)	Parameters to be monitored meter	basis
n-Butyl acetate	123-86-4	TWA	50ppm 241 mg/m3	2019/1831/E U
	Further information: Indicative			
		STEL	150ppm 723 mg/m3	2019/1831/E U
	Further information: Indicative			
		AGW	62 ppm 300 mg/m3	DE TRGS 900
	Peak limitation: Excess factor (category): 2;(I)			
	Further information: There is no need to fear a risk of fetal damage if the workplace limit value and the biological limit value (BGW) are adhered to			
hexamethylene	822-06-0	AGW (steam	0.005 ppm	DE TRGS

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diisocyanate		and aerosols)	0.035 mg/m3	900
	Peak limitation: Exceedance factor (category): 1;=2=(I)			
	Further information: In justified cases, an instantaneous value can also be set which may not be exceeded at any time. The substances are identified by the symbol = = and the exceedance factor., Respiratory sensitizing substance			
		AGW	0.005 ppm 0.035 mg/m3	TRGS 430
	Peak limitation: Exceedance factor (category): 1;=2=(I)			
	Further information: In justified cases, an instantaneous value can also be set which may not be exceeded at any time. The substances are identified by the symbol = = and the exceedance factor, respiratory sensitizing substance			

Biological workplace limit value

Substance name	CAS no.	To be monitored parameter	sampling time point	basis
Hexamethylene diisocyanate	822-06-0	hexamethylenedia min: 15 µg/g creatinine (Urine)	end of exposure, or end of shift	TRGS 903

8.2 Exposure controls and monitoring

Personal protective equipment

Eye/face protection : Eyewash bottle with pure water.
Tightly fitting safety goggles

Hand protection
material : Nitrile rubber
Breakthrough time : < 10 min
Glove thickness : > 0.4mm

Remarks : Please note: A glove's chemical resistance may be lower than breakthrough times due to many conditions (abrasion, temperature, etc.). Please carry out your own risk assessment for your appropriate uses.

Unsuitable gloves – non-exhaustive list: latex gloves.

Skin and body protection : Impervious protective clothing
Choose body protection depending on the amount and concentration of the dangerous substance at the workplace.

Respiratory protection : When developing fumes, use respiratory protection with an approved filter type.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties state of aggregation

: fluid

Color : colorless

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Boiling point/range	: > 36 °C
Upper explosion limit / upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: 35°C
Decomposition temperature	: Not applicable
PH value	: Substance/mixture is insoluble (in water)
viscosity	
Viscosity, kinematic	: > 20.6 mm ² /s (40 °C)
expiry time	: 40s
	Cross section: 4 mm
	Method: DIN 53211
solubility(ies)	
Water solubility	: partially soluble
Partition coefficient: n-octanol/water	: No data available
Vapor pressure	: < 1,000 hPa (50 °C)
density	: 1.07 g/cm ³ (23°C)
Relative vapor density	: No data available

9.2 Other information

Explosive substances/mixtures	: No data available
Oxidizing properties	: No data available
Spontaneous combustion	: No data available
Evaporation rate	: No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and used as intended.

10.2 Chemical stability

No decomposition if stored and used as intended.

10.3 Possibility of hazardous reactions

Dangerous reactions : No dangerous reactions known under normal conditions.
No decomposition if stored and used as intended.
Vapors can form an explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials

Substances to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Stable under specified storage conditions. There are no known dangerous decomposition products.

SECTION 11: Toxicological information

11.1 Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

acute toxicity

Harmful if inhaled. Harmful if inhaled.

Product:

Acute inhalation toxicity : Acute toxicity estimate: 14.4 mg/l
Exposure time: 4 h
Test atmosphere: steam
Method: calculation method
Assessment: The substance/mixture is not toxic by inhalation, as specified in the dangerous goods regulations.

Acute toxicity estimate: 14.56 mg/l
Exposure time: 4 h
Test atmosphere: steam
Method: calculation method

Corrosion/irritation to skin

Repeated exposure may cause dry or cracked skin. Repeated exposure may cause dry or cracked skin.

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Product:

Remarks : May cause skin irritation and/or dermatitis.

Ingredients:

aliphatic polyisocyanates:

species : Rabbits
Exposure time : 4 hours
Evaluation : No skin irritation
method : OECD Test Guideline
Result : 404 Mild skin irritation

aliphatic polyisocyanates:

species : Rabbits
Exposure time : 4 hours
Evaluation : No skin irritation
method : OECD Test Guideline
Result : 404 Mild skin irritation

Serious eye damage/irritation

Not classified based on available information. Not classified due to lack of data.

Product:

Remarks : Vapors can damage the eyes, respiratory system and skin irritate.

Ingredients:

aliphatic polyisocyanates:

species : Rabbits
Evaluation : No eye irritation
method : OECD Test Guideline 405
Result : Mild eye irritation

aliphatic polyisocyanates:

species : Rabbits
Evaluation : No eye irritation
method : OECD Test Guideline 405
Result : Mild eye irritation

Respiratory/skin sensitization

Sensitization through skin contact May cause allergic skin reactions.

Sensitization through skin contact May cause allergic skin reactions.

Sensitization by inhalation

Not classified based on available information.

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Sensitization by inhalation Not classified
due to lack of data.

Product:

Remarks : Causes sensitization.

Ingredients:

aliphatic polyisocyanates:

Type of test : Popliteal lymph node test (PLNA) skin
Routes of exposure : contact
species : Mouse
Evaluation : Sensitization possible through skin contact.
method : OECD Test Guideline 429
Result : positive

Type of test : Maximization test
Routes of exposure : Skin contact
species : Guinea pig
Evaluation : Sensitization possible through skin contact.
method : OECD Test Guideline 406
Result : positive

aliphatic polyisocyanates:

Type of test : Popliteal lymph node test (PLNA) skin
Routes of exposure : contact
species : Mouse
Evaluation : Sensitization possible through skin contact.
method : OECD Test Guideline 429
Result : positive

Type of test : Maximization test
Routes of exposure : Skin contact
species : Guinea pig
Evaluation : Sensitization possible through skin contact.
method : OECD Test Guideline 406
Result : positive

Germ cell mutagenicity

Not classified based on available information. Not
classified due to lack of data.

Ingredients:

aliphatic polyisocyanates:

Genotoxicity in vitro : Type of test: Ames test
Test system: Salmonella typhimurium Metabolic activation:
with and without metabolic activation

Method: OECD Test Guideline 471
Result: No structural alerts for mutagenicity were
detected

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Type of test: chromosomal aberration test in vitro
test system: rodent cell line
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473
Result: negative

Type of test: In vitro gene mutation test on mammalian cells
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Notes: No data available

Germ cell mutagenicity assessment : In vitro tests showed no mutagenic effects

aliphatic polyisocyanates:

Genotoxicity in vitro : Type of test: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471
Result: No structural alerts for mutagenicity were detected

Type of test: chromosomal aberration test in vitro
test system: rodent cell line
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473
Result: negative

Type of test: In vitro gene mutation test on mammalian cells
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Notes: No data available

Germ cell mutagenicity assessment : In vitro tests showed no mutagenic effects

Carcinogenicity

Not classified based on available information. Not classified due to lack of data.

Ingredients:

aliphatic polyisocyanates:

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Remarks : No information available.

Carcinogenicity - Assessment : The available data do not allow carcinogenicity classification.

aliphatic

polyisocyanates: Remarks : No information available.

Carcinogenicity - Assessment : The available data do not allow carcinogenicity classification.

Reproductive toxicity

Not classified based on available information. Not
classified due to lack of data.

Ingredients:

aliphatic polyisocyanates:

Effects on fertility: Notes: No serious side effects have been reported.
problems identified

Effects on fetal development: Notes: No serious side effects have been identified
development

Reproductive toxicity - : The available data do not allow classification regarding
assessment reproductive ability.
The available data do not allow classification regarding
embryotoxicity.

aliphatic polyisocyanates:

Effects on fertility: Notes: No serious side effects have been reported.
problems identified

Effects on fetal development: Notes: No serious side effects have been identified
development

Reproductive toxicity - : The available data do not allow classification regarding
assessment reproductive ability.
The available data do not allow classification regarding
embryotoxicity.

Specific target organ toxicity after single exposure

May irritate the respiratory tract.
May cause drowsiness and dizziness. May irritate
the respiratory tract.
May cause drowsiness and dizziness.

Ingredients:

aliphatic polyisocyanates:

Routes of exposure : Inhalation (dust/mist/smoke)
Target organs : respiratory system

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Evaluation : May cause respiratory irritation.

aliphatic polyisocyanates:

Routes of exposure : Inhalation (dust/mist/smoke)
Target organs : respiratory system
Evaluation : May irritate the respiratory tract.

Specific target organ toxicity after repeated exposure

Not classified based on available information. Not classified due to lack of data.

Ingredients:

aliphatic

polyisocyanates: Remarks : No serious side effects have been reported
provides

aliphatic

polyisocyanates: Remarks : No serious side effects have been reported
provides

Aspiration toxicity

Not classified based on available information. Not classified due to lack of data.

11.2 Information about other dangers

Endocrine disrupting properties

Product:

Evaluation : The substance/mixture does not contain any components that are have endocrine disrupting properties in quantities of 0.1% or more in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

More information

Product:

Remarks : Solvents can degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Ingredients:

aliphatic polyisocyanates:

Toxicity to fish : LC50 (Danio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h

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Method: Tested according to Annex V of the EC Directive 67/548/EEC.

Toxicity to Daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : ErC50 (Scenedesmus quadricauda (green algae)): > 1,000 mg/l Exposure time: 72 h
Method: According to Mäder PA001

Toxicity to microorganisms : IC50 (bacteria): 3,828 mg/l Exposure time: 3 h
Type of test: Respiratory inhibition
Method: OECD Test Guideline 209

aliphatic polyisocyanates:

Toxicity to fish : LC50 (Danio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h
Method: Tested according to Annex V of the EC Directive 67/548/EEC.

Toxicity to Daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : ErC50 (Scenedesmus quadricauda (green algae)): > 1,000 mg/l Exposure time: 72 h
Method: According to Mäder PA001

Toxicity to microorganisms : IC50 (bacteria): 3,828 mg/l Exposure time: 3 h
Type of test: Respiratory inhibition
Method: OECD Test Guideline 209

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in the ground

No data available

12.5 Results of the PBT and vPvB assessment

Product:

Evaluation : This substance/mixture does not contain any components Concentrations of 0.1% or higher classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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12.6 Endocrine-disrupting properties

Product:

Evaluation : The substance/mixture does not contain any components that are have endocrine disrupting properties in quantities of 0.1% or more in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

12.7 Other Adverse Effects

Product:

Other ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

product : Do not pour waste down the drain.
Do not contaminate standing or flowing water with chemicals or packaging materials.
Handover to an approved waste disposal company.

Contaminated packaging: Empty leftovers.
Dispose of as unused product. Do not reuse empty containers.
Do not burn empty containers or use a cutting torch.

Waste code no. : 08 05 01, isocyanate waste

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1263
ADDR : UN 1263
RID : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

ADN : COLOR ACCESSORIES
ADDR : COLOR ACCESSORIES
RID : COLOR ACCESSORIES
IMDG : PAINT RELATED MATERIAL
IATA : PAINT RELATED MATERIAL, Paint related material

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14.3 Transport hazard classes

	Class	Secondary dangers
ADN	: 3	
ADDR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 3	

14.4 Packaging group

ADN	
Packaging group	: III
Classification code	: F1
Number to identify the danger	: 30
Danger label	: 3
ADDR	
Packaging group	: III
Classification code	: F1
Number to identify the danger	: 30
Danger label	: 3
Tunnel restriction code	: (D/E)
RID	
Packaging group	: III
Classification code	: F1
Number to identify the danger	: 30
Danger label	: 3
IMDG	
Packaging group	: III
Danger label	: 3
EmS code	: FE,SE
IATA (freight)	
Packaging instructions (cargo plane)	: 366
Packaging instruction (LQ) packing group	: Y344 : III
Danger label	: Flammable liquids
IATA (passenger)	
Packaging instructions (passenger aircraft)	: 355
Packaging instruction (LQ) packing group	: Y344 : III
Danger label	: Flammable liquids

14.5 Environmental Hazards

ADN	
Environmentally hazardous	: no

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ADDR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for the user

The transport classification(s) provided herein are intended for informational purposes only and are based solely on the properties of the unpackaged material as described in this safety data sheet. Transportation classifications may vary with mode of transportation, packaging size, and variations in regional or country regulations.

14.7 Bulk carriage by sea in accordance with IMO instruments

Not applicable to product as delivered.

SECTION 15: Legislation

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)	: The restriction conditions for The following entries should be taken into account: Number in the list 3 Hexamethylene diisocyanate (number in the list 74)
REACH - List of substances of very high concern eligible for authorization (Article 59).	: Not applicable
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
Regulation (EU) No 649/2012 of the European Parliament and of the Council on the export and import of hazardous chemicals	: Not applicable
REACH - List of substances subject to authorization (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on controlling major-accident hazards involving dangerous substances.	FLAMMABLE LIQUIDS
Water hazard class	: WGK 1 slightly hazardous to water Classification according to AwSV, Appendix 1 (5.2)
TA Luft	: 5.2.1: Total dust: Not applicable

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5.2.2: Dusty inorganic substances: Not applicable
5.2.4: Gaseous inorganic substances: Not applicable
5.2.5: Organic substances:
Class 1: 0.15% hexamethylene diisocyanate
5.2.7.1.1: Carcinogenic substances: Not applicable
5.2.7.1.1: Quartz fine dust PM4: Not applicable
5.2.7.1.1: Formaldehyde: Not applicable
5.2.7.1.1: Fibers: Not applicable
5.2.7.1.2: Germ cell mutagenic substances: Not applicable
5.2.7.1.3: Substances toxic to reproduction: Not applicable
5.2.7.2: Difficult to degrade, easily accumulate and highly toxic organic substances: Not applicable

Volatile organic compounds

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Volatile organic compound (VOC) content: 24.85%

Other regulations:

Observe employment restrictions in accordance with Directive 94/33/EC on the protection of young people at work or stricter national provisions, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of the H-statements

H226	: Flammable liquid and vapor.
H315	: Causes skin irritation.
H317	: May cause allergic skin reactions. Causes
H319	: serious eye irritation.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H334	: May cause allergy, asthma-like symptoms or breathing difficulties if inhaled.
H335	: May irritate the respiratory tract.
H336	: May cause drowsiness and dizziness. Repeated exposure
EUH066	: may cause dry or cracked skin.

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Full text of other abbreviations

Acute Tox.	: acute toxicity
Eye irritation.	: Eye irritation
Flam. Liq.	: Flammable liquids Sensitization
Resp. Sens.	: by inhalation Irritation to skin
Skin irritation.	:
Skin Sens.	: Sensitization through skin contact
STOT SE	: Specific target organ toxicity - single exposure Europe.
2019/1831/EU	: Commission Directive 2019/1831/EU establishing a fifth list of indicative workplace limit values Germany. TRGS 900 -
DE TRGS 900	: workplace limit values
TRGS 430	: TRGS 430. Isocyanates
TRGS 903	: TRGS 903 - Biological limit values
2019/1831/EU/TWA	: Limit values - 8 hours
2019/1831/EU/STEL	: Short-term limits
DE TRGS 900 / AGW	: Occupational limit value
TRGS 430 / AGW	: Occupational limit value

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 Materials Testing; bw - body weight; CLP - Regulation on Classification, Labeling and Packaging of Substances, Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or reproductive toxicant; DIN - standard of the German Institute for Standardization; DSL - List of Domestic Substances (Canada); ECHA - European Chemicals Agency; EC-Number - number of the European Community; ECx - concentration associated with x% reaction; ELx - loading rate associated with x% reaction; EmS - emergency plan; ENCS - Existing and New Chemical Substances (Japan); ErCx - concentration associated with x% growth rate; 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 Maximum Inhibitor Concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Chemical Substances Existing in China; IMDG - Code - International Code for the Transport of Dangerous Goods by Sea Vessels; IMO - International Maritime Organization; ISHL - Occupational Safety and Health Act (Japan); ISO - International Organization for Standardization; KECI - Inventory of Chemicals Existing in Korea; LC50 - Lethal concentration for 50% of an experimental population; LD50 - Lethal dose for 50% of an experimental population (mean lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; nos - not otherwise specified; NO(A)EC - concentration at which no (harmful) effect is noticeable; NO(A)EL - dose at which no (harmful) effect is noticeable; NOELR - No detectable effect charge; NZIoC - New Zealand Chemicals Inventory; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention (OSCPP); PBT - Persistent, bioaccumulative and toxic substances; PICCS - Inventory of Chemicals and Chemical Substances Existing in the Philippines; (Q)SAR - (Quantitative) structure-activity relationship; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council regarding registration, evaluation, Approval and restriction of chemicals; RID - Regulations for the international transport of dangerous goods by rail; SADT - Self-accelerating decomposition temperature; SDS - safety data sheet; SVHC - Substance of Very High Concern; TCSI - Inventory of Chemical Substances Existing in Taiwan; TECI - Thailand Inventory of Existing Chemicals; TRGS - Technical Re-

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fishing for hazardous substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

More information

Classification of the mixture:

Flam. Liq. 3 H226

Acute Tox. 4 H332

Skin Sens. 1 H317

STOT SE 3 H336

STOT SE 3 H335

Classification procedure:

Based on product data or review

Calculation method

Calculation method

Calculation method

Calculation method

To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. To the extent that the product mentioned in this safety data sheet is mixed, mixed or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

DE / DE