



SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML	Version: 0.0
140331	

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_FR

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

1.1 Product identifier
 Trade name : 63642504615 NORTON 1 MIN 100 X 100 ML
 Urethane Adhesives - Speed Grip 1 minute

1.2 Relevant identified uses of the substance or mixture and uses advised against
 Recommended use : Adhesives
 Industrial chemical

1.3 Details of the supplier of the safety data sheet: Saint-Gobain Abrasives 1 New Bond Street Worcester, MA 01615 (USA) +1 (800) 551-4413 (Domestic Toll Free); Emergency number: 1-508-795-5000 email: www.Nortonabrasives.com CHEMTREC: 24 hrs: +1-800-424-9300	1.3 Details of the supplier safety data sheet: Saint-Gobain Canada, Inc. 28 Albert Street, W. Plattsville, ON N0J 1S0 Canada +1 519-684-7441 www.Nortonabrasives.com CHEMTREC: 24 hrs +1800-424-9300
--	--

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure, Category 2

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

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements :

- 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 : **Prevention:**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P284 Wear respiratory 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.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

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

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer
 α -Hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) polymer with 1,1'-methylenebis[4-isocyanatobenzene
 piperazine

Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 7,3084 %

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)	specific concentration limit, M- Factors, Acute toxicity estimate
4,4'- Methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014- 47-xxxx	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 %	>= 25 - < 40	SCL :Eye Irrit. 2 H319 >= 5 % STOT SE 3 H335 >= 5 % Skin Irrit. 2 H315 >= 5 % Resp. Sens. 1 H334 >= 0,1 % ATE Inhalation: LC50> 2,24 mg/l dust/mist ATE Ingestion: LD50 9.200 mg/kg ATE Dermal: LD50 > 7.900 mg/kg
DIPHENYLMETHA	25686-28-6	Acute Tox. 4; H332	>= 10 - < 15	SCL :Eye Dam.

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

NE DIISOCYANATE HOMOPOLYMER	5000403 01-2119457013- 49-xxxx	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1A; H334 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Respiratory Tract) specific concentration limit Eye Dam. 2; H319 ≥ 5 % Skin Irrit. 2; H315 ≥ 5 % Resp. Sens. 1; H334 ≥ 0,1 % STOT SE 3; H335 ≥ 5 %		2 H319 ≥ 5 % Skin Irrit. 2 H315 ≥ 5 % Resp. Sens. 1 H334 ≥ 0,1 % STOT SE 3 H335 ≥ 5 % ATE Ingestion: LD50 > 5.000 mg/kg ATE Dermal: > 9.400 mg/kg
POLYPROPYLEN E GLYCOL TRIMETHYLOLP OPANE TRIETHER, 4-4'- DIPHENYLMETHA NE DIISOCYANATE POLYMER	57596-50-6	Resp. Sens. 1; H334 Skin Sens. 1; H317	≥ 5 - < 10	
propylene carbonate	108-32-7 203-572-1 607-194-00-1 01-2119537232- 48-xxxx	Eye Irrit. 2; H319	≥ 1 - < 2,5	ATE Ingestion: LD50 29,1 g/kg ATE Dermal: LD50 > 24 g/kg
Piperazine	110-85-0 203-808-3 612-057-01-1 01-2119480384- 35-xxxx	Flam. Sol. 1; H228 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 Repr. 2; H361fd	≥ 0,5 - < 1	ATE Inhalation: LC01,61 mg/l vapour ATE Ingestion: LD50 ca.2.600 mg/kg

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

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

- General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
Call a physician or poison control centre immediately.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Cough
Headache
chest pain
lung edema (fluid buildup in the lung tissue)
Difficulty in breathing
- Risks : Pulmonary edema may be delayed.



SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML		Version: 0.0
140331		

Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause respiratory irritation.
 Suspected of causing cancer.
 May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO₂)
 Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
 Carbon monoxide
 Nitrogen oxides (NO_x)
 Hydrogen cyanide (hydrocyanic acid)
 Isocyanates
 Aldehydes
 Ketones

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Chlorine compounds
Halogenated hydrocarbons
Hydrocarbons

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
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).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Advice on safe handling : Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.
 Do not smoke.
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
 Container hazardous when empty.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
4,4'-Methylenediphenyl diisocyanate	101-68-8	VLCT (VLE)	0,02 ppm 0,2 mg/m ³	FR VLE
		VME	0,01 ppm	FR VLE

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Piperazine	110-85-0	TWA	0,1 mg/m ³ 0,1 mg/m ³	2000/39/EC
		STEL	0,3 mg/m ³	2000/39/EC
		VME (Dust and vapour)	0,1 mg/m ³ Dust and vapour	FR VLE
		VLCT (VLE) (Dust and vapour)	0,3 mg/m ³ Dust and vapour	FR VLE

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

DIPHENYLMETHANE : Aquatic (marine water)
 DIISOCYANATE Value: 0,1 mg/l
 HOMOPOLYMER
 Aquatic (freshwater)
 Value: 1 mg/l
 Sewage treatment plant
 Value: 1 mg/l
 Aquatic (intermit. releases)
 Value: 10 mg/l
 Soil
 Value: 1 mg/kg

8.2 Exposure controls**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Use eye protection according to EN 166.

Hand protection

Material : butyl-rubber
 Break through time : 480 min
 Glove thickness : > 0,5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The selected protective gloves have to satisfy the

		Page: 10
SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML		Version: 0.0
140331		

specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.

Protective clothing complying with EN 13688.
Safety shoes complying with EN ISO 20345.

Respiratory protection : Wear a positive-pressure supplied-air respirator with full facepiece.

Respiratory protection complying with EN 136.
Respiratory protection complying with EN 140.
Respiratory protection complying with EN 14387.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Flash point : > 93,4 °C

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

		Page: 11
SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331		Version: 0.0

10.4 Conditions to avoid

Conditions to avoid : Freezing temperatures.
Heat
Exposure to moisture

10.5 Incompatible materials

Materials to avoid : Acids
Alcohols
aluminum
Amines
Ammonia
Bases
Copper alloys
fluorides
Iron
isocyanates
Oxidizing agents
oxidizers
Phosphorus compounds
strong alkalis
strong reducing agents
water
Zinc
Humid air

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Hydrocarbons
Acetone

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye contact
Ingestion

Acute toxicity

	Page: 12
SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331	Version: 0.0

Not classified based on available information.

Components:

4,4'-Methylenediphenyl diisocyanate

Acute oral toxicity : LD50 (Rat): 9.200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2,24 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD50 (Rabbit): > 7.900 mg/kg
Symptoms: Redness, Swelling of tissue, Itching, Blistering, Pain

Components:

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 425
GLP: yes

Acute inhalation toxicity : Symptoms: Increased heart rate, Rapid respiration, Drowsiness, Headache, Nausea, Vomiting
Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : (Rabbit): > 9.400 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Components:

POLYPROPYLENE GLYCOL TRIMETHYLOLPROPANE TRIETHER, 4-4'-DIPHENYLMETHANE DIISOCYANATE POLYMER

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

Components:

propylene carbonate

Acute oral toxicity : LD50 (Rat): 29,1 g/kg

Acute inhalation toxicity : Assessment: Toxic effects cannot be excluded

Acute dermal toxicity : LD50 (Rabbit): > 24 g/kg

Components:

Piperazine

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Acute oral toxicity : LD50 (Rat): ca. 2.600 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male and female): 1,61 mg/l
Exposure time: 8 h
Test atmosphere: vapour

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

4,4'-Methylenediphenyl diisocyanate

Result: Irritating to skin.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Result: Irritating to skin.

Remarks: Information given is based on data obtained from similar substances.

POLYPROPYLENE GLYCOL TRIMETHYLOLPROPANE TRIETHER, 4-4'-DIPHENYLMETHANE
DIISOCYANATE POLYMER

Result: No skin irritation

propylene carbonate

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Piperazine

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

4,4'-Methylenediphenyl diisocyanate

Result: Irritating to eyes.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Result: Irritating to eyes.

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

POLYPROPYLENE GLYCOL TRIMETHYLOLPROPANE TRIETHER, 4-4'-DIPHENYLMETHANE
DIISOCYANATE POLYMER

Result: No eye irritation

propylene carbonate

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritating to eyes.

Piperazine

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

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

Product:

Remarks: May cause allergic skin reaction.

Components:

4,4'-Methylenediphenyl diisocyanate

Assessment: May cause sensitisation by inhalation.

Assessment: May cause sensitisation by skin contact.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Test Type: Maximisation Test

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Assessment: May cause sensitisation by inhalation.

POLYPROPYLENE GLYCOL TRIMETHYLOLPROPANE TRIETHER, 4-4'-DIPHENYLMETHANE
DIISOCYANATE POLYMER

Assessment: May cause sensitisation by skin contact.

Assessment: May cause sensitisation by inhalation.

Piperazine

Assessment: The product is a respiratory sensitiser, sub-category 1B.

Assessment: The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Not classified based on available information.

Components:

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Genotoxicity in vitro : Test Type: Ames test
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: Rat
Method: OECD Test Guideline 474
Remarks: Information given is based on data obtained from similar substances.

propylene carbonate
Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Test species: Mouse
Cell type: Bone marrow
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:

4,4'-Methylenediphenyl diisocyanate

Carcinogenicity - : Limited evidence of carcinogenicity in animal studies
Assessment

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Carcinogenicity - : Limited evidence of carcinogenicity in animal studies
Assessment

Reproductive toxicity

Not classified based on available information.

Components:

Piperazine

Reproductive toxicity - : Some evidence of adverse effects on sexual function and
Assessment fertility, and/or on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:

4,4'-Methylenediphenyl diisocyanate

	Page: 16
SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331	Version: 0.0

Exposure routes: Inhalation
 Target Organs: Respiratory system
 Assessment: May cause respiratory irritation.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER
 Exposure routes: Inhalation
 Target Organs: Respiratory Tract
 Assessment: May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

4,4'-Methylenediphenyl diisocyanate

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause damage to organs through prolonged or repeated exposure.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

11.2 Endocrine disrupting properties - Health :

None known.

SECTION 12: Ecological information

12.1 Toxicity

Components:

4,4'-Methylenediphenyl diisocyanate

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 3.000 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
 Exposure time: 24 h

	Page: 17
SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331	Version: 0.0

Test Type: static test
Method: OECD Test Guideline 202
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 10 mg/l
Exposure time: 21 d
End point: Reproduction Test
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Information given is based on data obtained from similar substances.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 3.000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 24 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 1.640 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Information given is based on data obtained from similar substances.

propylene carbonate
Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1.000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

	Page: 18
SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331	Version: 0.0

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 900 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 900 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Piperazine
Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1.800 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 21 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 12,5 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

4,4'-Methylenediphenyl diisocyanate

Biodegradability : Result: Not biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 302C
Remarks: Information given is based on data obtained from similar substances.

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %

		Page: 19
SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331		Version: 0.0

Exposure time: 28 d
Method: OECD Test Guideline 302C

propylene carbonate
Biodegradability : Result: Readily biodegradable.
Biodegradation: 87,1 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

Piperazine
Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

propylene carbonate
Partition coefficient: n- : log Pow: -0,41
octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Endocrine disrupting properties - Environment :

None known.

12.7 Other adverse effects

Product:

Additional ecological : No data available
information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with

		Page: 20
SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331		Version: 0.0

chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.2 UN proper shipping name

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.3 Transport hazard class(es)

ADN: Not dangerous goods

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

14.4 Packing group

ADN: Not dangerous goods

ADR: Not dangerous goods

	Page: 21
SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331	Version: 0.0

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods
INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods
RID: Not dangerous goods

14.5 Environmental hazards

ADN: Not applicable
ADR: Not applicable
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable
INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable
RID: Not applicable

14.6 Special precautions for user

Not applicable

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

Ship Type: Not applicable
 Hazard code(s): Not applicable
 Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

	Page: 22
SAFETY DATA SHEET	Revision Date: 19.12.2023
	Print Date: 19.12.2023
	SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331	Version: 0.0

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

Not applicable

Occupational Illnesses (R-461-3, France) : Health effects caused by organic isocyanates

Occupational Illnesses (R-461-3, France) : Health effects due to the inhalation of mineral dusts containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite or coal.

Occupational Illnesses (R-461-3, France) : Eczema injuries of an allergic nature.

Occupational Illnesses (R-461-3, France) : Skin effects caused by aliphatic and alicyclic amines or ethanolamines.

Occupational Illnesses (R-461-3, France) : Respiratory effects caused by aliphatic amines, ethanolamines or isophoronediamine.

Other regulations : Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

Pregnant women may only work with or be exposed to this product if, based on a risk assessment in the context of the activities and risk management measures taken, the exposure will not lead to any injury for mother and/or child (Maternity Protection Directive 92/85/EC as amended).

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

TCSI : On the inventory, or in compliance with the inventory

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 Exempt

KECI On the inventory, or in compliance with the inventory

PICCS Not in compliance with the inventory

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

IFCSC

On the inventory, or in compliance with the inventory

NZIoC

Not in compliance with the inventory

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

SECTION 16: Other information

H228	:	Flammable solid.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	:	May cause respiratory irritation.
H351	:	Suspected of causing cancer.
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.

Acute Tox.	:	Acute toxicity
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation

**SAFETY DATA SHEET**

Revision Date: 19.12.2023

Print Date: 19.12.2023

SDS Number: 000000093475

63642504615 NORTON 1 MIN 100 X 100 ML

Version: 0.0

140331

Flam. Sol. : Flammable solids
 Repr. : Reproductive toxicity
 Resp. Sens. : Respiratory sensitisation
 Skin Corr. : Skin corrosion
 Skin Irrit. : Skin irritation
 Skin Sens. : Skin sensitisation
 STOT RE : Specific target organ toxicity - repeated exposure
 STOT SE : Specific target organ toxicity - single exposure

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 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

		Page: 25
SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
4615 NORTON 1 MIN 100 X 100 ML		Version: 0.0
140331		

Sources of key data used to compile the Safety Data Sheet :

European Union Law with content from the Official Journal of the European Union.
European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.
The German Water Hazard Classes.
ReachCentrum; a series of support services to help comply with REACH regulations.
The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.
Cefic, the European Chemical Industry Council.
ESIS European Chemical Substances Information System

Classification of the mixture:

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

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

All information contained herein is believed to be accurate as of the date of publication, is provided "as-is" and is subject to change without notice. This is not a warranty, an agreement, or substitute for expert or professional advice. It is the sole responsibility of the user to determine the suitability of any products for user's application(s). NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED (INCLUDING SUITABILITY FOR USE IN ANY MEDICAL DEVICE OR MEDICAL APPLICATION), IS MADE CONCERNING THE PRODUCTS OR THE INFORMATION PROVIDED HEREIN. The information provided relates only to the specific products designated herein and may not be valid where such products are used in combination with other materials or in any process. The performance of the product, its shelf life, and application characteristics depends on many variables, and changes in these variables can impact product performance. You are responsible to test the suitability of any product in advance for any intended use or application and before

		Page: 26
SAFETY DATA SHEET		Revision Date: 19.12.2023
		Print Date: 19.12.2023
		SDS Number: 000000093475
63642504615 NORTON 1 MIN 100 X 100 ML 140331		Version: 0.0

commercialization. Nothing herein shall be construed as a license for the use of any product in a manner that might infringe any patent and it should not be construed as an inducement to infringe any patent. Please carefully review the Safety Data Sheet for the product.

FR / EN