Safety data sheet

1. Substance/preparation and company identification

CONIPUR TC 459

Use: Product for construction chemicals

Company:
BASF South East Asia Pte Ltd.
7 Temasek Boulevard,
#35-01 Suntec Tower One, 038987, SINGAPORE
Telephone: +65 6 337-0330
Telefax number: +65 6 334-0330
E-mail address: tommy.chng@basf.com

Emergency information:
International emergency number:
Telephone: +49 180 2273-112

2. Composition/information on ingredients

Chemical nature

Prepolymer based on: isocyanate

Contains: solvent(s)

Hazardous ingredients

Solvent naphtha (petroleum), light arom.
Content (W/W): >= 10 % - <= 25 %
CAS Number: 64742-95-6
EC-Number: 265-199-0
INDEX-Number: 649-356-00-4
Hazard symbol(s): Xn, N
R-phrase(s): 10, 51/53, 65, 66, 67

1,2,4-trimethylbenzene
Content (W/W): >= 10 % - <= 25 %
CAS Number: 95-63-6
EC-Number: 202-436-9
INDEX-Number: 601-043-00-3
Hazard symbol(s): Xn, N
R-phrase(s): 10, 20, 36/37/38, 51/53

propylbenzene
Content (W/W): >= 2.5 % - <= 10 %
CAS Number: 103-65-1
EC-Number: 203-132-9
INDEX-Number: 601-024-00-X
Hazard symbol(s): Xn, N
R-phrase(s): 10, 37, 51/53, 65

mesitylen
Content (W/W): >= 2.5 % - <= 10 %
CAS Number: 108-67-8
EC-Number: 203-604-4
INDEX-Number: 601-025-00-5
Hazard symbol(s): Xi, N
R-phrase(s): 10, 37, 51/53

Hexane, 1,6-diisocyanato-, homopolymer
Content (W/W): >= 2.5 % - <= 10 %
CAS Number: 28182-81-2
Hazard symbol(s): Xi
R-phrase(s): 43

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
Content (W/W): >= 0.5 % - <= 2.5 %
CAS Number: 4098-71-9
EC-Number: 223-861-6
INDEX-Number: 615-008-00-5
Hazard symbol(s): T+, N
R-phrase(s): 26, 36/37/38, 42/43, 51/53

dibutyltin dilaurate
Content (W/W): >= 0.1 % - <= 0.5 %
CAS Number: 77-58-7
EC-Number: 201-039-8
Hazard symbol(s): Xn
R-phrase(s): 22, 36/38, 48/22

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

Flammable.
Irritating to respiratory system.
May cause sensitization by inhalation and skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First-aid measures

General advice:
First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

On ingestion:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician:
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:
foam, water spray, dry extinguishing media, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
carbon monoxide, carbon dioxide, harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. Containers may rocket or explode in heat of fire. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:
Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable appliance and dispose of. Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.
Do not discharge into drains/surface waters/groundwater.

7. Handling and storage

Handling

Avoid aerosol formation. Avoid inhalation of dusts/mists/vapours. Keep container tightly sealed. No special measures necessary provided product is used correctly.

Protection against fire and explosion:
The product is combustible. Vapours may form explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from lyes. Segregate from acids. Segregate from oxidants. Segregate from foods and animal feeds.
Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

8. Exposure controls and personal protection

Components with workplace control parameters

1,2,4-trimethylbenzene, 95-63-6;
TWA value 25 ppm (ACGIHTLV)
TWA value 123 mg/m3 ; 25 ppm (OEL (SG))

mesitylen, 108-67-8;
TWA value 25 ppm (ACGIHTLV)
TWA value 123 mg/m3 ; 25 ppm (OEL (SG))

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, 4098-71-9;

TWA value 0.005 ppm (ACGIHTLV)
TWA value 0.045 mg/m3 ; 0.005 ppm (OEL (SG))

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:
Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:
Do not inhale gases/vapours/aerosols. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and chemical properties

Form:	liquid	
Colour:	various, depending on the colourant	
Odour:	solvent-like	
Flash point:	43 °C	(DIN 53213-1)
Flammability:	Flammable.	
Self-ignition temperature:	not self-igniting	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	approx. 28 hPa (50 °C)	
Density:	approx. 1.17 g/cm3 (20 °C)	
Solubility in water:	insoluble	

Viscosity, dynamic:	approx. 500 mPa.s (20 °C)

10. Stability and reactivity

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
strong acids, strong alkalies, strong oxidizing agents

Hazardous reactions:
Risk of exothermic reaction. Reacts with amines. Reacts with alcohols. Reacts with water, with formation of carbon dioxide.
The product is stable if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity

Assessment of acute toxicity:
Harmful by inhalation.

Irritation

Assessment of irritating effects:
Irritating to respiratory system.

Sensitization

Assessment of sensitization:
May cause sensitization by inhalation and skin contact.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

Experiences in humans

According to experience, the product is considered to be harmless to health if used in the correct manner.
Has degreasing effect on the skin.

12. Ecological information

Ecotoxicity

Assessment of aquatic toxicity:
No data available concerning aquatic toxicity.

Information on: 1,2,4-trimethylbenzene
Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Information on: mesitylen
Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Information on: 1,2,4-trimethylbenzene
Toxicity to fish:
LC50 (8 d) 7.4 mg/l, Pimephales promelas (Flow through.)
Literature data.

Information on: mesitylen
Toxicity to fish:
LC50 (8 d) 7.4 mg/l, Pimephales promelas (Flow through.)
Literature data.

Information on: 1,2,4-trimethylbenzene
Aquatic invertebrates:
EC50 (48 h) approx. 6.14 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An eluate has been tested. Literature data.

Information on: mesitylen
Aquatic invertebrates:
EC50 (48 h) 6.01 mg/l, Daphnia magna (DIN 38412 Part 11, static)
Literature data. Nominal concentration.

Information on: 1,2,4-trimethylbenzene
Aquatic plants:
EC50 (72 h) 1 - 2 mg/l (growth rate), Chlorella sp. (static)
Literature data.

Information on: mesitylen
Aquatic plants:
EC50 (72 h) 53 mg/l (growth rate), Scenedesmus subspicatus (static)
Literature data.

Additional information

Other ecotoxicological advice:
Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Observe national and local legal requirements.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

Sea transport
IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 1866
Hazard label:	3
Marine pollutant:	NO
Proper shipping name:	RESIN SOLUTION (contains SOLVENT NAPHTHA)

Air transport
IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 1866
Hazard label:	3
Proper shipping name:	RESIN SOLUTION (contains SOLVENT NAPHTHA)

Further information
Not dangerous goods of class 3 in packages up to 450 litres capacity (valid for ADR, ADNR, RID, TDG and USDOT).

15. Regulatory information

Regulations of the European union (Labelling)

Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)

N	Dangerous for the environment.
Xn	Harmful.

R-phrase(s)

R10	Flammable.
R20	Harmful by inhalation.
R37	Irritating to respiratory system.
R42/43	May cause sensitization by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S2	Keep out of the reach of children.
S29/35	Do not empty into drains, this material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Contains isocyanates. Observe manufacturer's instructions.

Hazard determining component(s) for labelling:
3-ISOCYANATOMETHYL-3.5.5-TRIMETHYLCYCLOHEXYL-ISOCYANAT, POLYFUNCTIONAL ISOCYANATE

Other regulations

16. Other information

Due to the merger of Degussa Construction chemicals and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xn	Harmful.
N	Dangerous for the environment.
Xi	Irritant.
T+	Very toxic.
10	Flammable.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
20	Harmful by inhalation.

36/37/38	Irritating to eyes, respiratory system and skin.
37	Irritating to respiratory system.
43	May cause sensitization by skin contact.
26	Very toxic by inhalation.
42/43	May cause sensitization by inhalation and skin contact.
22	Harmful if swallowed.
36/38	Irritating to eyes and skin.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.