TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



00359-1148



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

### 1.1. Product identifier

TIP TOP COROFLAKE 3000 Comp. B

**Art.-No.** 590 3010

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

## Use of the substance/mixture

Coating

## 1.3. Details of the supplier of the safety data sheet

TIP TOP Oberflaechenschutz Elbe GmbH

Heuweg 4

D-06886 Wittenberg

Telephone: +49(0)3491/635-50Telefax: +49(0)3491/635-552Responsible for the safety data sheet: sds@gbk-ingelheim.de

**1.4. Emergency telephone** Emergency telephone :+49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH,

number: Ingelheim)

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Indications of danger: Harmful, Irritant

R phrases:

Harmful by inhalation.

Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect.

May cause sensitisation by inhalation and skin contact.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

## **GHS** classification

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory/skin sensitization: Resp. Sens. 1 Respiratory/skin sensitization: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements: Harmful if inhaled.

 $\label{eq:may-cause} \mbox{May cause allergy or asthma symptoms or breathing difficulties if inhaled} \, .$ 

May cause respiratory irritation. Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

### 2.2. Label elements

# Pictograms:

GHS07-GHS08





Signal word: Danger

Hazardous components which must be listed on the label

 $\label{lem:discovanate} \mbox{ Diphenylmethanediisocyanate, isomers and homologues }$ 

 Print date: 28.01.2013
 GB - EN
 Page 1 of 7

TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



00359-1148

Diphenylmethane-4,4'-diisocyanate

**Hazard statements** 

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

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

**Precautionary statements** 

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

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

Not known.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

### **Chemical characterization**

Preparation with isocyanates

# **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
	Diphenylmethanediisocyanate, isomers and homologues	60 - 100 %
9016-87-9	Carc. Cat. 3, Xn - Harmful, Xi - Irritant R20-36/37/38-40-42/43-48/20	
	Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Carc. 2, Resp. Sens. 1, Skin Sens. 1, STOT RE 2; H332 H334 H335 H319 H315 H317 H351 H373	
202-966-0	Diphenylmethane-4,4'-diisocyanate	30 - 60 %
101-68-8	Carc. Cat. 3, Xn - Harmful, Xi - Irritant R40-20-48/20-36/37/38-42/43	
615-005-00-9	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373	
01-2119457014-47		

Full text of R and H phrases: see Section 16.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

# **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

### After inhalatior

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

Keep warm and calm injured person.

Refer for medical treatment.

## After contact with skin

Remove immediately adhering matter.

Wash contaminated skin with plenty of water and soap or with liquid polyethylene glycol.

Consult a physician.

TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



00359-1148



Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

### After ingestion

Do not induce vomiting.

Induce vomiting only upon the advice of a physician.

Summon a doctor immediately.

Rinse out mouth thoroughly with water.

# 4.2. Most important symptoms and effects, both acute and delayed

Harmful by inhalation.

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

Treat symptoms.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Foam, carbon dioxide (CO2), dry chemical, water-spray.

# Extinguishing media which must not be used for safety reasons

Full water jet.

# 5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).

Hydrogen cyanide (HCN)

Isocyanates (NCO).

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

### Additional information

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

## 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

## 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Container should not be gas-tight closed.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

# 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.





TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



00359-1148



## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

### Advice on safe handling

Keep container tightly closed.

Avoid contact with the skin and the eyes.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours.

When working with spray, exhaustion of air becomes indispensable.

Use only in thoroughly ventilated areas.

### Advice on protection against fire and explosion

No special protective measures against fire required.

## 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Keep at temperatures between 5°C and 50°C.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

## Advice on storage compatibility

Exothermic reaction with:

Acids and bases.

Water, amines, alcohols

### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 7.3. Specific end use(s)

Coating

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

# 8.2. Exposure controls

## Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

## Protective and hygiene measures

Do not inhale vapours.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

# Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

### Hand protection

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

# Eye protection

Tightly fitting goggles.

Eye wash bottle with pure water.

### Skin protection

Light protective clothing

TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



00359-1148



### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Brown
Odour: Musty

Test method

Changes in the physical state

Stock pint:

Flash point: 230 °C
Lower explosion limits: n.d.
Upper explosion limits: n.d.
Ignition temperature: n.d.
Vapour pressure: n.d.

(at 20 °C)

Density (at 25 °C): 123 g/cm³ Water solubility: Reacts with water.

Viscosity / dynamic: 180 - 240 mPa·s DIN 53019

(at 25 °C)

## **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No decomposition if stored and applied as directed.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Reactions with strong acids and alkalies.

Reacts with: Water, amines, alcohols

## 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

## 10.5. Incompatible materials

Acids and bases.

Water, amines, alcohols

## 10.6. Hazardous decomposition products

Hydrogen cyanide gas.

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).

Isocyanates

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### **Acute toxicity**

No toxicological data available.

Harmful by inhalation.

### Irritation and corrosivity

Eye irritation: Irritant Skin irritation: Irritant Sensitising effects

May cause an allergic skin reaction.

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

# Severe effects after repeated or prolonged exposure

STOT - Single exposure: Category 3 [May cause respiratory irritation.]

STOT - Repeated exposure: Category 2 [May cause damage to organs through prolonged or repeated exposure. ]

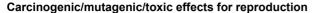
Aspiration hazard: Not classified.

TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



00359-1148



Carcinogenicity: Category 2 [Suspected of causing cancer.]

Mutagenicity: Not classified. Teratogenicity: Not classified. Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

### Empirical data on effects on humans

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecological data are not available.

# 12.2. Persistence and degradability

Not readily biodegradable.

## 12.3. Bioaccumulative potential

A bioaccumulation potential is to be expected.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

## 12.6. Other adverse effects

Low hazard to waters.

#### **Further information**

In aqueous systems, formation of unsoluble and chemically inert (inactive) polyureas.

Do not flush into surface water or sanitary sewer system.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

### Advice on disposal

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

# Waste disposal number of waste from residues/unused products

080409

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances

Classified as hazardous waste.

# Contaminated packaging

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

# **SECTION 14: Transport information**

## Other applicable information

No hazardous material as defined by the transport regulations.

## **SECTION 15: Regulatory information**

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

### **EU regulatory information**

1999/13/EC (VOC):

0 %

### National regulatory information

Employment restrictions:

Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing

Print date: 28.01.2013 GB - FN Page 6 of 7



TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 28.01.2013 Revision No: 1,00



# TIP TOP COROFLAKE 3000 Comp. B

00359-1148

Water contaminating class (D): 1 - slightly water contaminating

## 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

### Full text of R phrases referred to under Sections 2 and 3

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin. 40 Limited evidence of a carcinogenic effect.

42/43 May cause sensitisation by inhalation and skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

## Full text of H statements referred to under Sections 2 and 3

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.

### **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)