According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

000000356028 Date of first issue: 01.03.2021 01.03.2021 1.0

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

1.1 Product identifier

Trade name MasterSeal TC 373 colorless PART B

Product code 000000000050341979

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

Use of the Sub-

: Product for construction chemicals stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company Master Builders Solutions

Yapı Kimyasalları Sanayi ve Ticaret Ltd.

Ataşehir Kuzey, C Kapısı 3E/5-12

34746 İstanbul, Turkey

Telephone : +902162178800

Telefax : +902162178800

E-mail address of person responsible for the SDS

mabas-eb@mbcc-group.com

### 1.4 Emergency telephone

ChemTel: +1-813-248-0585

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification T.R. SEA No 28848

Acute toxicity, Category 4

Acute toxicity, Category 4

Skin corrosion/irritation, Category 1B

Serious eye damage/eye irritation, Cate-

gory 1

Skin sensitization, Category 1

Long-term (chronic) aquatic hazard, Cat-

egory 3

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



### MasterSeal TC 373 colorless PART B

Version **Revision Date:** SDS Number: Date of last issue: -

000000356028 Date of first issue: 01.03.2021 01.03.2021 1.0

#### 2.2 Label elements

### Labeling T.R. SEA No 28848

Hazard pictograms





Signal Word Danger

**Hazard Statements** H332 Harmful if inhaled.

> Harmful if swallowed. H302

H317 May cause an allergic skin reaction.

Causes severe skin burns and eye damage. H314 H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements** Prevention:

> P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

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

P260 Do not breathe dust or mist.

P261 Avoid breathing mist.

P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out

of the workplace.

Do not eat, drink or smoke when using this product. P270

Wash face, hands and any exposed skin thoroughly

after handling.

### Response:

Immediately call a POISON CENTER/ doctor/

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

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/

doctor if you feel unwell.

Rinse mouth.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

#### Storage:

P405 Store locked up.

#### Disposal:

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

P501 Dispose of contents/container to appropriate hazardous waste collection point.

#### 2.3 Other hazards

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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

#### 3.2 Mixtures

Chemical nature : polyamine

modified

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration num- ber	Classification	Concentration (% w/w)
Poly[oxy(methyl-1,2-ethanediyl)], #-(2-aminomethylethyl)omega(2-aminomethylethoxy)-	9046-10-0 618-561-0	Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Chronic2; H412	>= 5 - < 15
m-Phenylenebis(methylamine)	1477-55-0	1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 15 - < 20
ethanol	64-17-5 200-578-6 603-002-00-5	Flam. Liq.2; H225 Eye Irrit.2; H319	>= 1 - < 3
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox.4; H302 Acute Tox.4; H332 Acute Tox.4; H312 Eye Irrit.2; H319	>= 25 - < 50

For explanation of abbreviations see section 16.

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

### 4.1 Description of first-aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version **Revision Date:** SDS Number: Date of last issue: -

Date of first issue: 01.03.2021 01.03.2021 000000356028 1.0

In case of skin contact Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with difficul-

ty.

If on skin, rinse well with water. If on clothes, remove clothes.

Small amounts splashed into eyes can cause irreversible tis-In case of eye contact

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Clean mouth with water and drink afterwards plenty of water.

> Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

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

Risks Harmful if swallowed or if inhaled.

> May cause an allergic skin reaction. Causes serious eye damage.

Causes severe burns.

### 4.3 Indication of any immediate medical attention and special treatment needed

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Unsuitable extinguishing

media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

#### 5.3 Advice for firefighters

for fire-fighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information Collect contaminated fire extinguishing water separately. This

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



### MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

must not be discharged into drains.

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.

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

See sections: 7, 8, 11, 12 and 13.

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

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



### MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Wash hands before breaks and at the end of workday.

### 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must

comply with the technological safety standards.

Further information on stor-

age conditions

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Protect from direct sunlight.

Advice on common storage : Observe TRGS 509/510 storage rules.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice

mentioned in this section 7 is to be observed.

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

### 8.1 Control parameters

### 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

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).

Protective measures : Do not inhale dust/fumes/aerosols.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Avoid contact with the skin, eyes and clothing.

Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene

and safety practice.

Wearing of closed work clothing is recommended.

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

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

Appearance : liquid

Color : colorless

Odor : amine-like

Odor Threshold : not determined

pH : Not applicable

Melting temperature : No data available

boiling temperature : > 200 °CNo data available

Flash point : > 100 °C

Method: Flashpoint test using closed cup, determination of

flashpoint.

Evaporation rate : not determined

Flammability (solid, gas) : not highly flammable

Vapor pressure : No data available

Relative vapor density : not determined

Density : approx. 1,04 g/cm3 (20 °C)

approx. 1,03 g/cm3 (55 °C)

Solubility(ies)

Water solubility : emulsifiable (20 °C)

Partition coefficient: n-

octanol/water

: not applicable for mixtures

Autoignition temperature : No data available

Decomposition temperature : No decomposition if stored and handled as pre-

scribed/indicated.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Viscosity

Viscosity, dynamic : approx. 180 mPa.s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

9.2 Other information

Self-ignition : not self-igniting

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

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : See SDS section 7 - Handling and storage.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong bases

Strong oxidizing agents Strong reducing agents

# 10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed or if inhaled.

#### **Components:**

#### m-Phenylenebis(methylamine):

Acute oral toxicity : LD50 (Rat): 930 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2,4 mg/l

Exposure time: 4 h

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Acute dermal toxicity : LD50 (Rat, male/female): approx. 2.600 mg/kg

Method: BASF test

LD50 (Rabbit): 2.000 mg/kg

Skin corrosion/irritation

Causes severe burns.

**Product:** 

Remarks : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Causes serious eye damage.

**Product:** 

Remarks : May cause irreversible eye damage.

**Components:** 

Benzyl alcohol:

Species : Rabbit Exposure time : 24 h

Method : Acute Eye Irritation/Corrosion.

Result : Irritant

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

**Product:** 

Remarks : Causes sensitization.

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

Benzyl alcohol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay

Metabolic activation: with and without metabolic activation Method: Genetic Toxicology: Bacterial Reverse Mutation As-

say.

Result: negative

Test Type: Mammalian cell gene mutation assay

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Metabolic activation: with and without metabolic activation Method: Genetic Toxicology: In vitro Mammalian Cytogenetic

Test

Result: negative

Test Type: Mammalian cell gene mutation assay

Method: Genetic Toxicology: In vitro Mammalian Cell Gene

Mutation Tests Result: positive

Genotoxicity in vivo : Species: Mouse (male)

Method: Genetic Toxicology: Micronucleus Test

Result: negative

### Carcinogenicity

Not classified based on available information.

### **Components:**

### Benzyl alcohol:

Species : Rat, male/female

Exposure time : 103 w

Dose : > 400 mg/kg bw/d

Frequency of Treatment : 5 d/w

Method : Carcinogenicity Studies

### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Not classified based on available information.

# **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### m-Phenylenebis(methylamine):

No aspiration hazard expected.

### Benzyl alcohol:

No aspiration hazard expected.

### **Further information**

#### **Product:**

Remarks : The product has not been tested. The statement has been

derived from the properties of the individual components.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



### MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Remarks : No data available

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

### **Product:**

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity: This product has no known ecotoxicological effects.

**Components:** 

m-Phenylenebis(methylamine):

Toxicity to fish : LC50 (Rainbow trout): > 100 mg/l

Exposure time: 96 h

LC50 (zebra fish): > 100 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (green algae): 12 mg/l

Exposure time: 72 h

Benzyl alcohol:

Toxicity to fish : LC50 (Fathead minnow): 460 mg/l

Exposure time: 96 h Test Type: static

LC50 (sunfish, bluegill): 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): 230 mg/l

Exposure time: 48 h

Method: Daphnia sp., Acute Immobilisation Test.

Toxicity to algae/aquatic

plants

EC50 (green algae): 700 mg/l

Exposure time: 72 h

Method: Algae, Growth Inhibition Test

EC50 (green algae): 770 mg/l

Exposure time: 72 h

Method: Algae, Growth Inhibition Test

No observed effect concentration (green algae): 310 mg/l

Exposure time: 72 h Test Type: static

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Method: Algae, Growth Inhibition Test

Toxicity to microorganisms : EC10 (bacterium): 658 mg/l

Exposure time: 17 h
Test Type: aquatic
Analytical monitoring: no

Method: Test on inhibition of cell reproduction

GLP: no

Remarks: Nominal concentration.

Information taken from reference works and the literature.

EC50 (bacteria): 390 mg/l Exposure time: 24 h

Method: Test for inhibition of oxygen consumption by activat-

ed sludge.

EC50 (activated sludge): 2.100 mg/l

Exposure time: 49 h Test Type: static

Method: Test for inhibition of oxygen consumption by activat-

ed sludge.

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

No observed effect concentration: 51 mg/l

Exposure time: 21 d Species: Daphnia magna Test Type: semistatic

Method: Daphnia magna, Reproduction Test.

#### 12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: Taking into consideration the properties of several

ingredients, the product is estimated not to be readily biode-

gradable according to OECD classification.

**Components:** 

Benzyl alcohol:

Biodegradability : Inoculum: activated sludge

Biodegradation: 92 - 96 % Exposure time: 28 d Method: MITI-Test (I), ready

Biodegradation: 92 - 96 % Exposure time: 14 d

Method: MITI Test (II), inherent.

Biodegradation: 95 - 97 %

Exposure time: 21 d

Method: Ready Biodegradability: DOC Die Away Test

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

### 12.3 Bioaccumulative potential

### **Components:**

Benzyl alcohol:

Bioaccumulation : Bioconcentration factor (BCF): 1,37

Remarks: The product has not been tested. The statement has been derived from the properties of the individual compo-

nents.

Partition coefficient: n-

octanol/water

log Pow: 1,05 (20 °C)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

### **Product:**

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

### **SECTION 14: Transport information**

#### 14.1 UN number

ADN : UN 2735
ADR : UN 2735
RID : UN 2735
IMDG : UN 2735

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

IATA : UN 2735

14.2 UN proper shipping name

**ADN** : AMINES, LIQUID, CORROSIVE, N.O.S.

(M-PHENYLENEBIS(METHYLAMINE),

POLYETHERDIAMINE)

**ADR** : AMINES, LIQUID, CORROSIVE, N.O.S.

(M-PHENYLENEBIS(METHYLAMINE),

POLYETHERDIAMINE)

RID : AMINES, LIQUID, CORROSIVE, N.O.S.

(M-PHENYLENEBIS(METHYLAMINE),

POLYETHERDIAMINE)

**IMDG** : AMINES, LIQUID, CORROSIVE, N.O.S.

(M-PHENYLENEBIS(METHYLAMINE),

POLYETHERDIAMINE)

IATA : AMINES, LIQUID, CORROSIVE, N.O.S.

(M-PHENYLENEBIS(METHYLAMINE),

POLYETHERDIAMINE)

14.3 Transport hazard class(es)

ADN : 8
ADR : 8
RID : 8
IMDG : 8
IATA : 8

14.4 Packing group

**ADN** 

Packing group : II Labels : 8

**ADR** 

Packing group : II
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

**RID** 

Packing group : II Hazard Identification Number : 80 Labels : 8

**IMDG** 

Packing group : II Labels : 8

EmS Code : F-A, S-B

IATA (Cargo)

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



### MasterSeal TC 373 colorless PART B

Version Revision Date: SDS Number: Date of last issue: -

855

1.0 01.03.2021 000000356028 Date of first issue: 01.03.2021

Packing instruction (cargo :

aircraft)

Packing group : II

Labels : Corrosive

IATA (Passenger)

Packing instruction (passen- : 851

ger aircraft)

Packing group : II

Labels : Corrosive

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

### Other regulations:

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### 15.2 Chemical Safety Assessment

Chemical Safety Assessment not required

### **SECTION 16: Other information**

#### **Full text of H-Statements**

H225 : Highly flammable liquid and vapour.

H302 : Harmful if swallowed. H312 : Harmful in contact with skin.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

Version 1.0	Revision Date: 01.03.2021	SDS Number: 000000356028	Date of last issue: - Date of first issue: 01.03.2021
H314 H317 H318 H319 H332 H412		<ul><li>: May cause an a</li><li>: Causes serious</li><li>: Causes serious</li><li>: Harmful if inhale</li></ul>	eye irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Hazardous to the aquatic environment - chronic hazard

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; 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

#### **SDS Author**

Name: Nazlı ÖZER

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



# MasterSeal TC 373 colorless PART B

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