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



# MasterFlow 402RS PART B

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

1.1 Product identifier

Trade name MasterFlow 402RS PART B

Product code 000000000050336741

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

product-safety@mbcc-group.com responsible for the SDS

1.4 Emergency telephone

ChemTel: +1-813-248-0585

National Emergency Tele-

phone Number

Acil İlkyardım Merkezi: 112 Ulusal Zehir Danışma Merkezi: 114

Itfaiye: 110

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

# 2.1 Classification of the substance or mixture

Classification T.R. SEA No 28848

Acute toxicity, Category 4 H302: Harmful if swallowed.

Skin corrosion/irritation, Category 1B H314: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation, Cate-

gory 1

H318: Causes serious eye damage.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 2 H361fd: Suspected of damaging fertility. Suspected

of damaging the unborn child.

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Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Cat-

egory 1

H410: Very toxic to aquatic life with long lasting

effects.

#### 2.2 Label elements

# Labeling T.R. SEA No 28848

Hazard pictograms









Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damag-

ing the unborn child.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## Precautionary Statements :

#### Prevention:

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

P273 Avoid release to the environment. P260 Do not breathe dusts or mists.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been

read and understood.

P272 Contaminated work clothing should not be allowed out

of the workplace.

P270 Do not eat, drink or smoke when using this product. P264 Wash face, hands and any exposed skin thoroughly

after handling.

#### Response:

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

P310 Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting. P391 Collect spillage.

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P362 + P364 Take off contaminated clothing and wash it

before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazard-

ous waste collection point.

Hazardous ingredients which must be listed on the label:

4-tert-butylphenol

m-phenylenebis(methylamine)

4-nonylphenol, branched

Paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol and m-phenylenebis(methylamine)

#### 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 : aliphatic polyamine

#### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration num-<br>ber | Classification   | Concentration<br>(% w/w) |
|--|--|--|--------------------------|
| Paraformaldehyde, oligomeric reaction products with 4-tert-butylphenol and m-phenylenebis(methylamine) | Not Assigned   | Acute Tox. 4;<br>H302<br>Acute Tox. 4;<br>H312<br>Skin Corr. 1B;<br>H314<br>Aquatic Chronic 3;<br>H412 | >= 25 - <= 50            |
| 4-tert-butylphenol   | 98-54-4<br>202-679-0<br>604-090-00-8                       | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Repr. 2; H361<br>Aquatic Chronic 1;<br>H410                 | >= 10 - <= 25            |
| m-phenylenebis(methylamine)  | 1477-55-0<br>216-032-5                                     | Skin Corr. 1B;<br>H314<br>Eye Dam. 1; H318<br>Skin Sens. 1;  | >= 10 - <= 25            |

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|                         |                                       | H317<br>Aquatic Chronic 3;<br>H412<br>Acute Tox. 4;<br>H302<br>Acute Tox. 4;<br>H332                              |                |
|-------------------------|---------------------------------------|---|----------------|
| Benzyl alcohol          | 100-51-6<br>202-859-9<br>603-057-00-5 | Acute Tox. 4;<br>H302<br>Acute Tox. 4;<br>H332<br>Eye Irrit. 2; H319  | >= 2,5 - <= 10 |
| 4-nonylphenol, branched | 84852-15-3                            | 1B; H314<br>1; H318<br>Repr. 2; H361f<br>Repr. 2; H361d<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 | >= 2,5 - <= 10 |

For explanation of abbreviations see section 16.

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

# 4.1 Description of first-aid measures

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

If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

Immediately remove contaminated clothing.

If inhaled : Keep patient calm, remove to fresh air.

If symptoms persist, seek medical advice.

In case of skin contact : Immediately wash thoroughly with plenty of water, apply ster-

ile dressings, consult a skin specialist.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under

running water with eyelids held open, consult an eye special-

ist.

If swallowed : Immediately rinse mouth and then drink 200-300 ml of water,

seek medical attention.

Do not induce vomiting unless told to by a poison control cen-

ter or doctor.

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

Risks : Harmful if swallowed.

May cause an allergic skin reaction.

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Causes serious eye damage.

Suspected of damaging fertility. Suspected of damaging the

unborn child.

Causes severe burns.

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

Treatment : Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Foam

> Water spray Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

water jet

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod-

ucts

nitrogen oxides

corrosive gases/vapours

fumes/smoke carbon oxides carbon black

## 5.3 Advice for firefighters

for fire-fighters

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.

If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not

allow to reach sewage or effluent systems.

Contaminated extinguishing water must be disposed of in

accordance with official regulations.

## **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Personal precautions

Wear eye/face protection.

Use personal protective clothing.

Handle in accordance with good building materials hygiene

and safety practice.

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6.2 Environmental precautions

Environmental precautions : Contain contaminated water/firefighting water.

Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up with suitable appliance and dispose of.

Large spills should be collected mechanically (remove by

pumping) for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

**SECTION 7: Handling and storage** 

7.1 Precautions for safe handling

Advice on safe handling : 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.

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

The product is neither self-ignitable, nor an explosion hazard,

nor does it promote fires.

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

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, wellventilated place away from ignition sources, heat or flame.

Protect from direct sunlight.

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

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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

Contains no substances with occupational exposure limit values.

#### 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.

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 : yellowish

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Odor : amine-like

pH : No data available

Boiling point : > 250 °C

Flash point :  $> 100 \, ^{\circ}\text{C}$ 

Density : 1,04 g/cm3 (20 °C)

Method: Paints and varnishes - Determination of density - Part

2: Immersed body (plummet) method

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : 510 °C

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

scribed/indicated.

Viscosity

Viscosity, dynamic : 1.900 mPa.s (23 °C)

Method: Polymers/resins in the liquid state or as emulsions or dispersions - Determination of viscosity using a rotational viscometer with defined shear rate (Annex A; coaxial-cylinder

viscometers)

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

GLP: no

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.

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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.

#### Skin corrosion/irritation

Causes severe burns.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

# Respiratory sensitization

Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

#### 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.

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#### **Further information**

**Product:** 

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

derived from the properties of the individual components.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

#### **Product:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : Remarks: The product does not fulfill the criteria for PBT (Per-

sistent/bioaccumulative/toxic) and vPvB (very persistent/very

bioaccumulative).

#### 12.6 Other adverse effects

#### **Product:**

Additional ecological infor-

mation

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxi-

cology have been derived from the properties of the individual

components.

## **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

Product : Observe national and local legal requirements.

The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal

agency/manufacturer/authorities.

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Residues should be disposed of in the same manner as the

substance/product.

Contaminated packaging : Contaminated packaging should be emptied as far as possi-

ble; then it can be passed on for recycling after being thor-

oughly cleaned.

Packs that cannot be cleaned should be disposed of in the

same manner as the contents.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR : UN 1760
RID : UN 1760
IMDG : UN 1760
IATA : UN 1760

#### 14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, N.O.S.

(NONYLPHENOL, M-PHENYLENEBIS(METHYLAMINE))

RID : CORROSIVE LIQUID, N.O.S.

(NONYLPHENOL, M-PHENYLENEBIS(METHYLAMINE))

IMDG : CORROSIVE LIQUID, N.O.S.

(NONYLPHENOL, M-PHENYLENEBIS(METHYLAMINE))

IATA : CORROSIVE LIQUID, N.O.S.

(NONYLPHENOL, M-PHENYLENEBIS(METHYLAMINE))

#### 14.3 Transport hazard class(es)

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

# 14.4 Packing group

**ADR** 

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

**RID** 

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

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



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**IMDG** 

Packing group : II Labels : 8

EmS Code : F-A, S-B

IATA (Cargo)

Packing instruction (cargo : 855

aircraft)

Packing group : II

Labels : Corrosive

IATA (Passenger)

Packing instruction (passen- : 851

ger aircraft)

Packing group : II

Labels : Corrosive

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

MDG

Marine pollutant : yes

#### 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

KKDIK (30105 (Bis)) - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17)

Conditions of restriction for the following entries should be considered:

Number on list 3

Regulation on Persistent Organic Pollutants (Number

30595)

: Not applicable

Regulation on prevention of major industrial accidents. Reg number 30702

E1

**ENVIRONMENTAL HAZARDS** 

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#### 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.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I". Regulation on Classification, Labelling and Packaging of Substances and Mixtures. Dated 11 December 2013, Numbered 28848 (Bis) Ministry of Environment and Forestry.

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

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

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

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.

H361 : Suspected of damaging fertility or the unborn child.

H361d : Suspected of damaging the unborn child.

H361f : Suspected of damaging fertility.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.
 H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Hazardous to the aquatic environment - acute hazard
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

Repr. : Reproductive toxicity

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
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; 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

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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

#### **SDS Author**

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TR / EN