

# SAFETY DATA SHEET

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 M 251 colorless

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	19.01.2021	000000254834	Date of first issue: 19.01.2021

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

#### 1.1 Product identifier

Trade name : MasterSeal M 251 colorless  
Product code : 000000000050157651

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

Use of the Sub-stance/Mixture : Product for construction chemicals  
Recommended restrictions on use : Industrial use, Professional use, Not suitable for consumers.

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

Company : Master Builders Solutions  
Yapı Kimyasalları Sanayi ve Ticaret Ltd.  
Sti.,  
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](mailto:mabas-eb@mbcc-group.com)

#### 1.4 Emergency telephone

ChemTel: +1-813-248-0585

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Cat-	H411: Toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labeling T.R. SEA No 28848

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements : **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P271 Use only outdoors or in a well-ventilated area.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243 Take action to prevent static discharges.  
P241 Use explosion-proof [electrical/ ventilating/ lighting/ .?] equipment.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P242 Use only non-sparking tools.  
P240 Ground and bond container and receiving equipment.

#### **Response:**

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P332 + P313 If skin irritation occurs: Get medical advice/

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attention.  
P391 Collect spillage.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.  
P233 Keep container tightly closed.  
P405 Store locked up.

### Disposal:

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

### Additional Labeling:

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, 1,2-Benzisothiazol-3(2H)-one, 2-butyl-contains  
EUH204 Contains isocyanates. May produce an allergic reaction.

### 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  
isocyanate  
modified

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0 649-356-00-4	Asp. Tox.1; H304 Flam. Liq.1; H224 Skin Irrit.2; H315 STOT SE3; H336 Aquatic Chronic2; H411	< 50
Isophorone diisocyanate homopolymer with Isophorone diisocyanate	53880-05-0	Skin Sens.1B; H317 STOT SE3; H335	<= 15
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7 255-437-1	Skin Sens.1A; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	< 1

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3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9 223-861-6 615-008-00-5	Skin Irrit.2; H315 Eye Irrit.2; H319 Resp. Sens.1; H334 Skin Sens.1; H317 STOT SE3; H335 Aquatic Chronic2; H411 Acute Tox.1; H330	< 0,3
1,2-Benzisothiazol-3(2H)-one, 2-butyl-	4299-07-4 420-590-7 606-079-00-3	Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	< 0,3
dibutyltin dilaurate	77-58-7 201-039-8 050-030-00-3	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318 Muta.2; H341 Repr.1B; H360 STOT SE1; H370 STOT RE1; H372 Aquatic Chronic2; H411 M-Factor (Acute aquatic toxicity): 1	< 0,2
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7 280-060-4	Skin Sens.1A; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	< 0,2

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. Immediately remove contaminated clothing. Move out of dangerous area.
- If inhaled : Keep patient calm, remove to fresh air. If unconscious, place in recovery position and seek medical advice.

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- If symptoms persist, seek medical advice.
- In case of skin contact : After contact with skin, wash immediately with plenty of water and soap.  
Under no circumstances should organic solvent be used.  
If on clothes, remove clothes.  
If irritation develops, seek medical attention.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Rinse mouth thoroughly with water, seek medical attention.  
Keep respiratory tract clear.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
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

- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Dry powder  
Alcohol-resistant foam
- Unsuitable extinguishing media : water jet

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

- Specific hazards during fire fighting : Evolution of fumes/fog.  
In case of fire hazardous decomposition products may be produced such as:
- Hazardous combustion products : harmful vapours

### 5.3 Advice for firefighters

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

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for fire-fighters

essary.

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.  
Keep containers cool by spraying with water if exposed to fire.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective clothing.  
Breathing protection required.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent spreading over a wide area (e.g., by containment or oil barriers).  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Provide good room ventilation even at ground level (vapours are heavier than air).  
Take precautionary measures against static discharges.  
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.  
Do not breathe vapors or spray mist.

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Open drum carefully as content may be under pressure.  
For personal protection see section 8.

Advice on protection against fire and explosion : Sources of ignition should be kept well clear. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Hygiene measures : No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

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

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Keep container tightly closed and in a cool place.

Recommended storage temperature : > 5 - < 30 °C

Packaging material : Suitable material: tinned carbon steel (Tinplate)

### 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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1,2,4-trimethylbenzene	95-63-6	TWA (8 Hour)	20 ppm 100 mg/m <sup>3</sup>	TR OEL
		TWA	20 ppm 100 mg/m <sup>3</sup>	2000/39/EC
	Further information: Indicative			
		TWA value	20 ppm 100 mg/m <sup>3</sup>	OEL (TR)

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### 8.2 Exposure controls

#### Personal protective equipment

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

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Respiratory protection in case of vapour/aerosol release. Suitable respiratory protection for higher concentrations or long-term effect:  
Gas filter for gases/vapours of organic compounds (boiling point <65 °C, f.e. EN 14387 Type AX)

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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Color : colorless

Odor : characteristic

Odor Threshold : not determined

pH : No data available

Melting point : No data available

Boiling point : > 100 °C

Flash point : 39 °C

Evaporation rate : not determined

Flammability (solid, gas) : Flammable.

Vapor pressure : No data available



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Relative vapor density	:	not determined
Density	:	1,05 g/cm <sup>3</sup> (20 °C)
Bulk density	:	(23 °C) Not applicable
Solubility(ies)	:	
Water solubility	:	emulsifiable
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	No data available
Decomposition temperature	:	Vapors may form explosive mixture with air.  No decomposition if stored and handled as prescribed/indicated.
Viscosity	:	
Viscosity, dynamic	:	1.500 mPa.s (23 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	not fire-propagating

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	The product is stable if stored and handled as prescribed/indicated.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge. Avoid heat.
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See SDS section 7 - Handling and storage.

### 10.5 Incompatible materials

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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.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Components:

##### Isophorone diisocyanate homopolymer with Isophorone diisocyanate:

Acute oral toxicity : LD50 (Rat): > 14.000 mg/kg  
Method: Acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Method: Acute Inhalation Toxicity

#### Skin corrosion/irritation

Causes skin irritation.

Repeated exposure may cause skin dryness or cracking.

#### Components:

##### Isophorone diisocyanate homopolymer with Isophorone diisocyanate:

Species : Rabbit  
Method : Acute Dermal Irritation/Corrosion.  
Result : non-irritant

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### Isophorone diisocyanate homopolymer with Isophorone diisocyanate:

Species : Rabbit  
Method : Acute Eye Irritation/Corrosion.  
Result : moderately irritating

#### Respiratory or skin sensitization

##### Skin sensitization

May cause an allergic skin reaction.

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### Respiratory sensitization

Not classified based on available information.

### Components:

#### Isophorone diisocyanate homopolymer with Isophorone diisocyanate:

Test Type	:	Guinea pig maximization test
Species	:	Guinea pig
Method	:	Skin Sensitization
Result	:	Sensitizing

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT-single exposure

May cause drowsiness or dizziness.

### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Components:

#### Isophorone diisocyanate homopolymer with Isophorone diisocyanate:

No aspiration hazard expected.

### Further information

#### Product:

Remarks	:	Has a degreasing effect on skin. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects.
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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Hazardous to the aquatic environment - acute hazard

Chronic aquatic toxicity : Hazardous to the aquatic environment - chronic hazard

##### Components:

##### **Isophorone diisocyanate homopolymer with Isophorone diisocyanate:**

Toxicity to fish : LC50 (carp): > 1,5 mg/l  
Exposure time: 96 h  
Method: Fish, Acute Toxicity Test  
Remarks: No toxic effects occur within the range of solubility.

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
Exposure time: 3 h  
Method: Activated Sludge, Respiration Inhibition Test.  
Remarks: Nominal concentration.

##### **dibutyltin dilaurate:**

M-Factor (Acute aquatic toxicity) : 1

##### **Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

#### 12.2 Persistence and degradability

##### Product:

Biodegradability : Remarks: Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

##### Components:

##### **Isophorone diisocyanate homopolymer with Isophorone diisocyanate:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, domestic, non-adapted  
Biodegradation: 0 %

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Exposure time: 28 d  
Method: Manometric Respiratory Test

Stability in water : Test Type: Hydrolysis in water  
Degradation half life: < 1 h  
Hydrolysis: at 50 °C  
Method: Hydrolysis as a function of pH.  
GLP: yes  
Remarks: In contact with water the substance will hydrolyse rapidly.

### 12.3 Bioaccumulative potential

#### Components:

##### **Solvent naphtha (petroleum), light arom.:**

Partition coefficient: n-octanol/water : log Pow: 3,17  
Method: other (calculated)  
GLP: no

##### **Isophorone diisocyanate homopolymer with Isophorone diisocyanate:**

Bioaccumulation : Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.

Partition coefficient: n-octanol/water : Remarks: Not applicable

##### **3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:**

Partition coefficient: n-octanol/water : log Pow: approx. 4,75 (25 °C)  
pH: 7  
Method: other (calculated)  
Remarks: Study scientifically not justified.

##### **1,2-Benzisothiazol-3(2H)-one, 2-butyl-:**

Partition coefficient: n-octanol/water : log Pow: 2,86

##### **dibutyltin dilaurate:**

Partition coefficient: n-octanol/water : log Pow: 3,17 (20,8 °C)  
pH: 6,1 - 6,3  
Method: Partition coefficient (n-octanol/water), Shake-flask method  
GLP: yes

### 12.4 Mobility in soil

No data available

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### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : Remarks: The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Observe national and local legal requirements.  
Residues should be disposed of in the same manner as the substance/product.  
Send to a licensed waste management company.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

### 14.2 UN proper shipping name

ADN : PAINT  
(SOLVENT NAPHTHA)  
ADR : PAINT  
(SOLVENT NAPHTHA)  
RID : PAINT

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(SOLVENT NAPHTHA)  
**IMDG** : PAINT  
(SOLVENT NAPHTHA)

**IATA** : PAINT

### 14.3 Transport hazard class(es)

**ADN** : 3  
**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**ADN**  
Packing group : III  
Labels : 3

**ADR**  
Packing group : III  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : III  
Hazard Identification Number : 30  
Labels : 3

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 355  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : yes

**ADR**  
Environmentally hazardous : yes

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### RID

Environmentally hazardous : yes

### IMDG

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.

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## 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

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## SECTION 16: Other information

### Full text of H-Statements

H224	: Extremely flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
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.
H330	: Fatal if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H341	: Suspected of causing genetic defects.
H360	: May damage fertility or the unborn child.
H370	: Causes damage to organs (/\$/*_ORGAN_SINGLE\$/).
H372	: Causes damage to organs (/\$/*_ORGAN_REPEAT\$/) through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.



# SAFETY DATA SHEET

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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H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic 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 Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Hazardous to the aquatic environment - chronic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Muta. : Germ cell mutagenicity  
Repr. : Reproductive toxicity  
Resp. Sens. : Respiratory sensitization  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitization  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
OEL (TR) : Regulation on Protection of Health & Safety Measures from Risks related to Chemical Agents at Work (Turkey)  
TR OEL : Turkey. Chemical Agents at Work - Annex I: Indicative occupational exposure limit values  
2000/39/EC / TWA : Limit Value - eight hours  
OEL (TR) / TWA value : Time Weighted Average (TWA):  
TR OEL / TWA (8 Hour) : Measured or calculated in relation to a reference period of eight-hour time-weighted average

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

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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

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