

# 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".



We create chemistry

## MBrace 4500 PTB V2 1,27KG 1A1

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.11.2020	000000244196	Date of first issue: 04.11.2020

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

#### 1.1 Product identifier

Trade name : MBrace 4500 PTB V2 1,27KG 1A1  
Product code : 000000000050315894

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

Use of the Sub-stance/Mixture : Product for construction chemicals

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

Company : Allpro Group  
Via Dolorosa  
34215 ISTANBUL  
Telephone : +902123343580452  
Telefax : +902123343579  
E-mail address of person responsible for the SDS : [mabas-eb@mbcc-group.com](mailto:mabas-eb@mbcc-group.com)

#### 1.4 Emergency telephone

Acil İlk Yardım Merkezi: 112 Ulusal Zehir Danışma Merkezi: 114 İtfaiye: 110

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### 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, Category 1  
Skin sensitization, Category 1  
Reproductive toxicity, Category 1B  
Long-term (chronic) aquatic hazard, Category 3

#### 2.2 Label elements

Labeling T.R. SEA No 28848

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- Hazard pictograms : 
- Signal Word : Danger
- Hazard Statements : H312 Harmful in contact with skin.  
H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H360D May damage the unborn child.  
H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary Statements : **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P260 Do not breathe dust or mist.  
P273 Avoid release to the environment.  
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:**  
P310 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.  
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.  
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
- Storage:**  
P405 Store locked up.
- Disposal:**  
P501 Dispose of contents/container to appropriate hazardous waste collection point.

### Additional Labeling:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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Version 1.0      Revision Date: 04.11.2020      SDS Number: 000000244196      Date of last issue: -  
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### 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 : polymeric amine  
aliphatic

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2A; H319	>= 10 - < 15
imidazole	288-32-4 206-019-2 613-319-00-0	Acute Tox.4; Skin Corr.1C; Eye Dam.1; Repr.1B;	>= 1 - < 3
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Acute3; H402 Aquatic Chronic3; H412	>= 20 - < 25
alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))	9046-10-0		>= 25 - < 50
Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)	25068-38-6 500-033-5 603-074-00-8	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 10 - < 15
Trimethylhexane-1,6-diamine	25620-58-0	Acute Tox.4; Skin Corr.1B; Skin Sens.1; Aquatic Chronic3;	>= 15 - < 20

For explanation of abbreviations see section 16.

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Version	Revision Date:	SDS Number:	Date of last issue: -
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### 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 attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
Take victim immediately to hospital.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue 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 in contact with skin.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May damage the unborn child.  
Causes severe burns.

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### 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

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

### 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 : Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use.

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---

Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application 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 : Normal measures for preventive fire protection.

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 re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage 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. Store protected against freezing.

Advice on common storage : Observe VCI storage rules.

Further information on storage 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.

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## 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

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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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Version	Revision Date:	SDS Number:	Date of last issue: -
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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 concentration 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 gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Handle in accordance with good building materials hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	yellow
Odor	:	product specific, amine-like
pH	:	neutral to slightly alkaline
Melting point	:	No data available
boiling temperature	:	approx. 260 °C
Flash point	:	> 100 °C
Evaporation rate	:	not determined
Flammability (solid, gas)	:	not highly flammable
Vapor pressure	:	< 24 hPa (20 °C)
Relative vapor density	:	not determined
Density	:	approx. 0,96 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	:	
Water solubility	:	emulsifiable
Autoignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity	:	
Viscosity, dynamic	:	approx. 800 mPa.s (25 °C)
Explosive properties	:	Not explosive Not explosive

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Oxidizing properties : not fire-propagating

### 9.2 Other information

Self-ignition : not self-igniting

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## 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 : Oxidizing agents  
strong alkalies  
Acids

### 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

Harmful if swallowed or in contact with skin.

#### 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.



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### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

May damage 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.

### **Components:**

#### **imidazole:**

Not applicable

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Result: No data available.

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: No data available.

#### **Components:**

#### **imidazole:**

Partition coefficient: n-octanol/water : log Pow: -0,02 (25 °C)  
Method: Partition coefficient (n-octanol/water), Shake-flask method  
GLP: no

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### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: n-octanol/water : log Pow: 0,99 (23 °C)  
pH: 6,3  
Method: Partition coefficient  
GLP: no

### 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 information : 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.

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## 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 chemical 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.

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## SECTION 14: Transport information

### 14.1 UN number

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

### 14.2 UN proper shipping name

ADN : CORROSIVE LIQUID, N.O.S.

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(POLYOXYPROPYLENEDIAMINE,  
ISOPHORONEDIAMNINE)

**ADR** : CORROSIVE LIQUID, N.O.S.  
(POLYOXYPROPYLENEDIAMINE,  
ISOPHORONEDIAMNINE)

**RID** : CORROSIVE LIQUID, N.O.S.  
(POLYOXYPROPYLENEDIAMINE,  
ISOPHORONEDIAMNINE)

**IMDG** : CORROSIVE LIQUID, N.O.S.  
(POLYOXYPROPYLENEDIAMINE,  
ISOPHORONEDIAMNINE)

**IATA** : CORROSIVE LIQUID, N.O.S.  
(POLYOXYPROPYLENEDIAMINE,  
ISOPHORONEDIAMNINE)

### 14.3 Transport hazard class(es)

**ADN** : 8

**ADR** : 8

**RID** : 8

**IMDG** : 8

**IATA** : 8

### 14.4 Packing group

**ADN**  
Packing group : III  
Labels : 8

**ADR**  
Packing group : III  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

**RID**  
Packing group : III  
Hazard Identification Number : 80  
Labels : 8

**IMDG**  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 856  
Packing group : III  
Labels : Corrosive

**IATA (Passenger)**

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Version	Revision Date:	SDS Number:	Date of last issue: -
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Packing instruction (passenger aircraft) : 852  
Packing group : III  
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.

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

## 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.  
H402 : Harmful to aquatic life.

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Version	Revision Date:	SDS Number:	Date of last issue: -
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H411 : 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  
Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic 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; 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

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Certificate no: GBF-A-0-2748  
Certification Date: 28.03.2018  
Certificate Expiry Date: 28.03.2021

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