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SDS No: PL0PH0HS
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SAFETY DATA SHEET
COMMISION REGULATION (EU) 2015/830 of 28 May 2015.

P-HS HARDENER
HS HARDENER

1-IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance / mixture
Product Name: *P-HS HARDENER*
HS HARDENER

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Refinish - Hardener

1.2. Details of the supplier of the safety data sheet:
Polaron Boya Kimya Sanayi ve Ticaret Anonim Şirketi
10. Cadde No: 10 41400 Gebze/Kocaeli
Tel: +90 262 751 25 51
Fax: +90 262 751 25 52
e-mail: sds@polaronboya.com

1.3. Emergency telephone number: +90 262 751 25 51 (working hours)

2-HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Flammable liquids (Category 3), H226
Skin sensitisation (Category 1), H317
Acute Toxicity (respiratory) (Category 4), H332
Specific target organ toxicity, single exposure (Category 3), H335
Specific target organ toxicity, single exposure (Category 3), H336

Full text for all (H) Sentences and (P) statements is given in section 16.

2.2. Label elements
Labeling (REGULATION (EC) No 1272/2008)

GHS02 GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H226: Flammable liquid and vapour.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

Precautionary statements (CLP): P201: Obtain special instructions before use.
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P234: Keep only in original packaging.
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.
P260: Do not breathe dust/fume/gas/mist/vapours/ spray.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protector/face protector.
P314: Get medical advice/attention if you feel unwell.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301 + P312 + P330: IF SWALLOWED: If you feel unwell, call THE NATIONAL POISON ADVICE CENTER or a doctor / physician. Rinse your mouth.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 + P310: IF IN EYE CONTACT: Rinse carefully with water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call THE NATIONAL POISON ADVICE CENTER or the doctor / physician immediately.
P403 + P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents / container according to local, regional and international rules.

2.3 Other hazards
Contains isocyanates. May cause allergic reactions.

Hazardous Components: n-butyl acetate
hexamethylene-1,6-diisocyanate homopolymer

3-COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Substance or Compound	Content (%)	Product Description	Classification
n-butyl acetate	≥30 - <60	CAS No: 123-86-4 EC No: 204-658-1 REACH No: 01-2119485493-29	Flam. Liq. 3; H226 STOT Single. 3; H336 EUH066
Hexamethylene-1,6-diisocyanate homopolymer	≥40 - <60	CAS No: 28182-81-2 EC No: 500-060-2 REACH No: 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT Single. 3; H335
Benzenesulfonyl isocyanate, 4-methyl-	≥0,20 - <0,30	CAS No: 4083-64-1 EC No: 223-810-8 REACH No: 01-2119980050-47	Skin Irrit. 2; 315 Eye Irrit. 2; H319 Respiratory Sens. 1; H334 STOT Single. 3; H335

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

4-FIRST AID MEASURES

General advice
Consult the doctor. When you consult your doctor, show this safety data sheet.

If inhaled
If inhaled, remove casualty to fresh air. Nothing should be given by mouth. Consult the doctor.

In case of skin contact
Take off your dirty clothes. Wash with soap and plenty of water. Consult the doctor.

In case of eye contact
Remove contact lenses, if any. Open eyelids and rinse with plenty of water. Consult your doctor if the discomfort persists.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult the doctor. Do not try to induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
There are no data available on the mixture itself. Exposure to solvent vapours above occupational exposure limit values may cause harmful effects on mucous membranes and respiratory system. It can have the same effects on kidneys, liver and central nervous system. In addition, absorption of the solvent through the skin may result in some of the above effects. Symptoms and signs may include headache, dizziness, fatigue, muscle weakness, drowsiness and, in extreme cases, unconsciousness.
Known symptoms and effects are indicated on the label. (section 2.2 and/or section 11)

4.3. Indication of any immediate medical attention and special treatment needed
No data available

5-FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: It is recommended to use alcohol resistant foam, carbon dioxide, dry chemical powder and water spray.
Do not use water jet or pressurized water.

5.2. Special hazards arising from the substance or mixture
Fire will create a density of black smoke. Exposure to decomposition products may pose a health hazard.
Hazardous Thermal Decomposition Products: May include carbon monoxide, carbon dioxide, smoke, nitrogen oxides, hydrogen cyanide, monomeric isocyanates

5.3. Advice for firefighters
To extinguish fire, use a full mask with oxygen tube when necessary. Avoid breathing fire gases or vapors.

5.4 Further information
If there is no risk, water spray can be used to cool the unopened containers and the fire-fighting water should be prevented from mixing with the water environment.

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzman

6-ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use your personal protective equipment. Avoid breathing dust, vapor, fumes or gas. Make sure you have good ventilation. Move personnel to a safe area. Do not breathe waste.
For personal protection see section 8.

6.2 Environmental precautions
If there is no safety hazard, prevent further leakage and spillage. Make sure that it does not mix with the sewer. Discharge to the environment should be prevented.

6.3 Methods and material for containment and cleaning up
The spilled material should be absorbed with a non-combustible absorbent material such as sand, earth, vermiculite or diatomaceous earth. Store wastes in closed containers suitable for this purpose.

6.4 Reference to other sections
For personal protection see Section 8.
See Section 11 for additional information on health hazards.
For waste disposal, see section 13.

7-HANDLING AND STORAGE

7.1. Precautions for safe handling
Since its vapors are heavier than air and can spread on the floor, care should be taken to ensure that there is non-flammable or explosive vapor in the air and that the existing vapor is kept below the limits related to occupational safety. it should be kept in in tightly closed containers and the should be worked in places away from sources of spark and naked lights. To dissipate static electricity during transport and handling, the tanks should be grounded and the container connected with a strap. Take off contaminated clothing and wash before wearing. Do not eat or drink while working. Contact with skin and eyes should be avoided, dust, particle spray or mist generated during the application of the mixture and dust during sanding should not be inhaled. All health and safety conditions stipulated by labour laws must be met.
For precautions, see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Keep the container tightly closed in a dry and well-ventilated cool place. Avoid heat, sources of ignition and sunlight. Smoking should not be allowed. The entry of unauthorized persons must be prevented. Opened containers should be resealed and kept upright against spillage. It should not be drained into drains. It should be kept away from oxidizing agents, strong alkalis and strong acids.

7.3 Specific end use (s):
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8-EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits: No exposure limit value known.

Prescribed Monitoring Procedure: If this product contains ingredients with exposure limit values, personal, workplace or biological measurements may be required to determine the effectiveness of ventilation or other control measures and / or the need for use of respiratory protective equipment.

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

Derived Zero Impact Level (DNEL)

PRODUCT / INGREDIENT NAME	TYP	EXPOSURE	VALUE	COMMUNITY	EFFECTS
n-butyl acetate	DNEL	Short Term Inhalation	960 mg/m3	Workers	Systemic
	DNEL	Short Term Inhalation	960 mg/m3	Workers	Local
	DNEL	Long Term Inhalation	480 mg/m3	Workers	Systemic
	DNEL	Long Term Dermal	480 mg/m3	Workers	Local
	DNEL	Short Term Inhalation	859,7 mg/m3	Consumers	Systemic
	DNEL	Short Term Inhalation	859,7 mg/m3	Consumers	Local
	DNEL	Long Term Inhalation	102,34 mg/m3	Consumers	Systemic
	DNEL	Long Term Dermal	102,34 mg/m3	Consumers	Local
hexamethylene-1,6-diisocyanate homopolymer	DNEL	Short Term Inhalation	1 mg/m3	Workers	Local
	DNEL	Long Term Inhalation	0,5 mg/m3	Workers	Local

Predicted No Effect Concentration (PNEC)

PRODUCT / INGREDIENT NAME	LAYER DETAIL	VALUE	METHOD DETAIL
n-butyl acetate	Fresh Water	0,18 mg/l	-
	Marine	0,018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine sediment	0,0981 mg/kg	-
	Soil	0,0903 mg/kg	-
	Sewage Treatment Plant	35,6 mg/l	-
hexamethylene-1,6-diisocyanate homopolymer	Fresh Water	0,127 mg/l	-
	Marine	0,0127 mg/l	-
	Fresh water sediment	266700 mg/kg dwt	-
	Marine sediment	26670 mg/kg dwt	-
	Soil	53182 mg/kg dwt	-
	Sewage Treatment Plant	38.28 mg/l	-

8.2. Exposure controls
Personal protective equipment:

Appropriate engineering controls
Handle in accordance with industrial hygiene and safety rules. Wash hands before breaks and at the end of the day.

Eye/face protection
Face shield and safety glasses Use eye protection equipment that has been tested and approved in accordance with standards such as NIOSH (US) or EN 166 (EU).

Skin protection
Wear gloves when handling. Gloves should be checked before use. Use the correct glove removal method (without touching the outer surface of the glove) to avoid skin contact with this product. Contaminated gloves should be disposed of in accordance with good laboratory practice and compliance.
The selected protection gloves must comply with the EU 2016/425 Regulation and the EN 374 standard prepared based on this regulation.

If used in solution, or mixed with other substances and used in a way other than the conditions specified in EN 374, consult the EU approved glove supplier. This information is advisory only and should be developed by a safety officer and hygienist who is knowledgeable about the specific situation of use expected by the customer. It should not be considered an endorsement for any particular use case.

Body Protection
Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

Respiratory protection
In the risk assessment, use respirators with air purification and fully covering the face. Use relevant devices and equipment such as NIOSH (United States) or CEN (European Union).

Control of environmental exposure
Be careful not to mix with sewers and water sources.

9-PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

PHYSICAL STATE	Liquid - Colorless
ODOUR	No data available
SOLUBILITY IN WATER	No data available
DENSITY	0,97-0,99
UPPER / LOWER FLAMMABILITY OR EXPLOSION LIMITS	Lower: 1,2% Upper: 7,5%
FREEZING POINT	No data available
DEGRADATION TEMPERATURE	No data available
INITIAL BOLLING AND BOILING RANGE	No data available
FLASH POINT	25 °C
VAPOUR PRESSURE	No data available
VAPOUR DENSITY	No data available
POUR POINT	No data available
VISCOSITY	No data available
PH	No data available

9.2 Other information
No data available

10-STABILITY AND REACTIVITY

10.1. Reactivity.
No specific test data on reactivity available for this product or its ingredients.

10.2. Chemical stability
Stable under recommended storage and handling conditions. (Section 7)

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

10.3. Possibility of hazardous reactions
The product reacts slowly with water and releases carbon dioxide. Pressure increase in closed containers can result in deterioration, expansion, and in extreme cases, container explosion.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
To prevent heat-related reactions, it should be kept away from the following substances: Oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohol.

10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11-TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
There is no data available on the mixture itself.

Acute toxicity:

PRODUCT / INGREDIENT NAME	RESULT	TYP	DOSE	EXPOSURE
n-butyl acetate	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	>21,1 mg/l >14.112 mg/kg 10.760 mg/kg	4 hours - -
hexamethylene-1,6-diisocyanate homopolymer	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rat Rat	1,50 mg/l >2.000 mg/kg >2.500 mg/kg	4 hours - -
benzensulfonil izosiyanat, 4-metil-	LD50 Oral	Rat	>2.600 mg/kg	-

Result : No data

Acute Toxicity Predictions:
No data available

Corrosion/irritation

PRODUCT / INGREDIENT NAME	RESULT	TYP	POINT	EXPOSURE	OBSERVATION
hexamethylene-1,6-diisocyanate homopolymer	Eyes – Moderate Irritant Skin – Moderate Irritant	Rabbit Rabbit	- -	- 4 hours	- -

Result : No data

Respiratory or skin sensitisation:

PRODUCT / INGREDIENT NAME	WAY OF EXPOSURE	TYP	RESULT
hexamethylene-1,6-diisocyanate homopolymer	Skin Skin	Mouse Guinea Pig	Sensitivity Files Sensitivity Files

Result : No data

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

Germ cell mutagenicity:

PRODUCT / INGREDIENT NAME	TEST	EXPERIMENT	RESULT
hexamethylene-1,6-diisocyanate homopolymer	OECD 471 Bacterial reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative -
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammals-Animal Metabolic activation: +/-	Negative -

Result : No data

Carcinogenicity:
No data available

Reproductive toxicity:
No data available

Specific target organ toxicity - single exposure

PRODUCT / INGREDIENT NAME	CATEGORY	WAY OF EXPOSURE	TARGET ORGANS
n-butyl acetate	Category 3	Not applicable	Narcotic effects
hexamethylene-1,6-diisocyanate homopolymer	Category 3	Not applicable	Respiratory irritation

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Other informations
No data available

12-ECOLOGICAL INFORMATION

12.1. Toxicity
There is no data available on the mixture itself. Its entrance to water channels and water resources should be prevented.

PRODUCT / INGREDIENT NAME	RESULT	TYP	EXPOSURE
n-butyl acetate	Acute EC50 647,7 mg/l Acute EC50 44 mg/l Acute LC50 32 mg/l Acute LC50 18 mg/l Acute NOEC 200 mg/l Chronic NOEC 23 mg/l	Desmodesdus subspicatus Daphnia magna Artemia salina Pimephales promelas Desmodesdus subspicatus Daphnia magna	72 hours 48 hours 48 hours 96 hours 72 hours 21 days
hexamethylene-1,6-diisocyanate homopolymer	Acute LC50 mg/l>100 mg/l Acute EC50 100 mg/l	Danio rerio Daphnia magna	48 hours 96 hours

Result : No data

Ayşen Eda KABASAKAL
Sertifika No : TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

12.2 Persistence and degradability

PRODUCT / INGREDIENT NAME	TEST	RESULT	DOSE	INOCULUM
n-butyl acetate	OECD 301D Ready Biodegradability-Closed Bottle Test	>80 %-5 days	-	-
hexamethylene-1,6-diisocyanate homopolymer	EU 67/548/EEC Annex V, C.4.E	1% Not readily degradable-28 days	-	-

Result : No data

PRODUCT / INGREDIENT NAME	HALF LIFE IN WATER	PHOTOLYSIS	BIODEGRADABLE
n-butyl acetate	-	-	Readily
hexamethylene-1,6-diisocyanate homopolymer	Fresh water 7.7 days, 23 oC	-	Not Readily

12.3 Bioaccumulative potential

PRODUCT / INGREDIENT NAME	LOGPOW	BCF	POTANTIAL
n-butyl acetate	2,30	-	Low
hexamethylene-1,6-diisocyanate homopolymer	5,54	367,7	Low

12.4 Mobility in soil
Soil / Water Distribution: No data
Mobility: No data

12.5 Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

12.6 Other adverse effects
No data available

13-DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods:
Dispose of waste in an appropriate treatment and disposal facility in accordance with applicable laws and regulations and product specifications at the time of disposal. The product or the contaminated materials must be delivered to a licensed waste contractor in accordance with the regulations, within the scope of the Waste Management Regulation (02.04.2015 RG: 29314).

Contaminated Packaging:
Contaminated packages should be as empty as possible. Dispose of waste in an appropriate treatment and disposal facility, in accordance with applicable laws and regulations and product specifications at the time of disposal. Recycle after cleaning or dispose of at an authorized place.
This product and its container must be disposed of in a safe way. Personnel should wear protective clothing. Care should be taken in the selection of protective clothing to protect against irritation on the skin of the neck and wrists that may result from contact with dust. There may be product residue in empty containers or other packaging. Vapor from product residues can create an easily flammable or explosive atmosphere in the container. Do not cut, weld, or grind used containers unless the interior is thoroughly cleaned. Do not allow spilled material to spread, run or come in contact with soil, waterways, drains.

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

14-TRANSPORT INFORMATION

14.1 UN number
ADR/RID: 1263 IMDG: 1263 IATA: 1263

14.2 UN proper shipping name
ADR/RID: PAINT AND PAINT RELATED MATERIAL
IMDG: PAINT AND PAINT RELATED MATERIAL
IATA: PAINT AND PAINT RELATED MATERIAL

14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packing group
ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards
Marine pollutant: no

14.6 Special precautions for user
ADR: Hazard Identification Number: 30
Limited Quantity Limit: 5L
Tunnel Code: (D/E)

IMDG: Ems: F-E, S-E

IATA: Passenger and Cargo Aircraft: Quantity Limit: 60 L - Packing Instruction: 355
Cargo Aircraft Only: Quantity Limit: 220 L - Packing Instruction: 355
Quantity Limit for Passenger Aircraft: 10 L - Packing Instruction: Y344
Special Provisions: A3, A72

15-REGULATORY INFORMATION

15.1 Substance, health and environmental legislation
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

16-OTHER INFORMATION

Information Resources
This SDS is based on the information and documents received from the product owner company. The SDS preparer and the company cannot be held responsible for the material damages and moral negativities that the product owner company may encounter due to the incomplete or incorrect arrangement of the SDS.

Certificate Number: TÜV / 11.15.01
Certificate Validity: 13.05.2024
Edited: Ayşen Eda KABASAKAL - Certified Safety Data Sheet Editor

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı

SAFETY DATA SHEET
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HS HARDENER

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Abbreviations;
WEL: Workplace Exposure Limit
TWA: Workplace Exposure Limit
STEL: Short term exposure limit
DNEL: Derived No-Effect Level
DMEL: Derived minimum effect level
PNEC: Predicted No-Effect Concentration
ATE: Acute Toxicity Estimation
REACH No: Number of Registration, Evaluation, Authorization and Restriction of Chemicals
EC No: European Community Number
CAS: Chemical Abstracts Service
ADR: European Agreement on the International Carriage of Dangerous Goods by Road
RID: European Agreement on the International Transport of Dangerous Goods by Rail
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
LC50: substance concentration causing 50% (half) death in the test animal group
LD50: Dose of substance causing 50% (half) death in test animal group (Median Lethal Dose)
PBT: Persistent, Bioaccumulative and Toxic Substance
vPvB: Very Persistent, Very Bioaccumulative
EUH: EU Hazard Statements

Full text of H statements found in Chapters 2 and 3;
H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
EUH066: Repeated exposure may cause skin dryness or cracking.

DISCLAIMER

This information relates only to a specific specific substance and should not be used in a composition or any process in which the same substance is used in combination with other substances. The information provided in this document is, to the highest level of knowledge and belief of the company, accurate and reliable information as of the date specified. However, no warranty or representation of any kind is made for its accuracy, reliability and completeness. It is the user's own responsibility to be satisfied that this information is suitable for his own use. This information is based on our current knowledge and is intended to define the health, safety and environmental requirements of the product. Therefore, this information should not be interpreted as a guarantee of any feature of the product. The data contained in the form are based on our current knowledge and are intended to describe the product in terms of safety requirements. The information given cannot be understood as giving any guarantee for any special or general specification / application and we do not accept any responsibility as the manufacturer company (sds owner company). The responsibility for the intended use of the product and its suitability for the method used belongs to the user. Any loss / damage arising from the use of the information in the form will not be accepted by us. In any case, our general sales conditions apply.

Ayşen Eda KABASAKAL
Sertifika No: TÜV / 11.15.01
Geçerlilik Tarihi : 13.05.2024
Kimyasal Değerlendirme Uzmanı