

MATERIAL SAFETY DATA SHEET

VH 72 MAXISEAL- OIL & WATER REPELLENT SURFACE PROTECTOR - NATURAL LOOK

It is sued in accordance with provisions of "Republic of Turkey, Ministry of Environment and Urban Planning, Regulation on Safety Data Sheets relating to Hazardous Substances and Mixtures" dated 13 December 2014 and numbered 29204.

PART 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY/DISTRIBUTOR

1.1. Identification of Substance/Mixture:

Product name : Oil and Water Repellent Surface Protector -Natural Look

Product code : VH 72

1.2. Identified uses and inadvisable uses of substance or mixture

Identified uses : Surface protective chemicals for natural stones.

Inadvisable uses : Inadvisable special uses have not been identified.

1.3. Information about Material Safety Data Sheet provider

Company name : ELKAY KİMYASAL MADDELER SAN. TİC. A.Ş.

Address : Cumhuriyet Mahallesi İsmet İnönü Caddesi No.35 41420

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1.4. Emergency phone number

Emergency phone number : ELKAY: +90 262 751 21 89

National emergency phone : National poison information center (UZEM) : 114 Fire brigade: 110
Emergency health services: 112

PART 2: HAZARDS IDENTIFICATION

2.1. Classification of substance or mixture

Classification Republic of Turkey 28848

Physical damages Flammable Liquid 3 - H226

Medical damages Akute Tox.4-H312/ Skin Irrit.2 -H315/ Akute Tox.4-H332

2.2. Label ingredients

Hazards mark:



GHS02



GHS07

Warning word : Attention

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Hazards phrases: **H226** : Flammable liquid and vapor.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H332 : Harmful if inhaled.
EUH066 : Repeated exposure may cause skin dryness or cracking.

Precautionary phrases: **P102** : Keep out of reach of children.
Precaution: **P210** : Keep away from heat/spark/flame/hot surfaces. - No smoking.
P233 : Keep container tightly closed.
P243 : Take precautionary measures against static discharge.
P261 : Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 : Use only outdoors or in a well-ventilated area.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Intervention: **P303+P361+P353** : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313 : If skin irritation occurs: Get medical advice/attention.
P370+P378 : In case of fire: Use foam, carbon dioxide, dry powder or water mist for extinguishing.
P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 : Get medical advice/attention if you feel unwell.

Storage: **P403+P235** : Store in a well ventilated place. Keep cool.

Disposal: **P501** : Dispose of contents/container to ... [... in accordance with local/regional/national/international

2.3. Other damages

Product does not contain any substance classified as PBT or vPvB.

PART3: INFORMATION ABOUT COMPOSITION/INGREDIENTS

3.1. Substances

-None

3.2. Mixtures

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Substance	C.A.S No-	EINECS	Concentration %	SEA T.C. 28848	
				Class, H Phrases*	
Xylene	1330-20-7	215-535-7	75-80	Flam. Liq. 3 Akute Tox.4 Skin Irrit. 2 Akute Tox. 4	H226 H312 H315 H332
Butyl acetate	123-86-4	204-658-1	13-15	Flam. Liq. 3 STOT SE 3	H226 H336

PART4: FIRST AID MEASURES

4.1. Description of first aid measures

Eyes : If any, remove contact lens and rinse with plenty of water for 15 minutes by opening the eyelids. Seek medical attention if irritation persists.

Skin : Take off contaminated clothes, rinse with plenty of water. Seek medical attention if irritation persists.

Ingestion: Seek medical attention. If the patient is conscious, rinse the mouth thoroughly with plenty of water, and make him/her to drink several glasses of water or milk. Do not induce vomiting unless stated by medical staff. Never give anything to mouth of unconscious person. If vomiting occurs, help vomiting by turning head of patient to the right side in order that respiratory tracts remain open.

Inhalation: Take patient to fresh air. Loose the clothes tightening the body (tie, collar, belt etc.) by seating in a comfortable position to breathe. Seek immediate medical attention in case of respiratory distress.

Protection of First Aid Officials: First aid personnel should wear appropriate protective equipment during recovery.

Performing artificial respiration by mouth can be dangerous for first aid personnel.

4.2. Acute and subsequent important symptoms and effects

General information: See Part 11 for additional information about health hazards. The severity of described symptoms may vary depending on concentration and duration of exposure.

Eyes : It causes irritation.

Skin : It causes rash and swelling.

Ingestion : It causes irritation. In case of ingestion, it has loss of aspiration.

Inhalation : Irritation, coughing, difficulty in breathing, chest tightness. Risk of serious damage to health in long inhalations. It is suspected to cause damage on unborn child.

4.3. First marks for medical attention and special treatment requirement

Information to be provided to the doctor: apply the symptomatic treatment.

PART5: FIRE FIGHTING MEASURES

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5.1. Fire extinguishers

Suitable fire extinguishing materials: Use alcohol resistant foam, carbon dioxide, dry powder or water mist. Unsuitable fire extinguishing agents because of safety: High pressure water jet

5.2. Specific hazards arising from substance or mixture

Specific hazards : Containers can explode severely when heated, because excessive pressure arises within it. Vapors can create explosive mixtures with air.

Hazardous combustion products: In case of fire, it can release hazardous gasses or vapors (such as carbon monoxide (CO), carbon dioxide (CO₂)).

5.3. Advices for firefighting teams

Protective measures which should be taken during fire extinguishing: Discharge the area. Avoid breathing fire gasses and vapors. Before entering indoor areas, ventilate these areas. Cool containers exposed to heat with water spray and if there is not any risk, take these containers to elsewhere other than fire area. Avoid discharge spillage into the aquatic environment. If there is a danger of water pollution, inform the relevant authorities.

Special protective equipment for fire extinguishing teams: Wear positive pressure self-contained closed-circuit breathing apparatus and suitable protective clothing.

PART6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Any action involving personal risk should not be taken before receiving proper training. Keep away unnecessary and unprotected persons from spillage. Wear protective clothes as indicated in Part 8 of this Material Safety Data Sheet. Purify yourself thoroughly after dealing with a spillage. Ensure that procedures and emergency trainings are provided for cleaning and disposal of wastes in place. Do not touch spilled material or do not walk on it. Discharge the area. Ensure sufficient ventilation. No smoking and do not use fire, spark or other sources of ignition near spillage. In case of insufficient ventilation, wear suitable respirator.

6.2. Environmental precautions

Environmental measures: Avoid spilling into sewer, overground and underground waters, soil. Big Spillages: If environmental pollution occurs (sewer, water sources, soil or air) inform the relevant authorities.

6.3. Methods and materials for protection and cleaning

Spillage: Wear protective clothes as indicated in Part 8 of this Material Safety Data Sheet.
Cleaning: Do not smoke, do not use fire, spark or one of other sources of ignition near spillage.
Methods: Collect the spillage and absorb it with sand, soil or other non-flammable

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substance. Place waste into labeled and sealed containers. Clean contaminated articles and areas thoroughly by considering environmental regulations. Wash contaminated area with plenty of water. Dangerous for environment. Do not discharge into the sewer.

6.4. References to other parts

All kinds of information about personal protection and disposal are provided in the Parts 8 and 13.

PART7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Using precautions : Ensure good ventilation. Wear protective clothes as indicated in Part 8 of this Material Safety Data Sheet. Keep away from foods, drinks and animal feeds. In order to minimize spillages, handle all packages and containers carefully. Keep away from heat/spark/flame/hot surfaces - No smoking. Substance flamed/exploded during use can form vapor-air mixture. Vapors can accumulate on the ground and within low-based areas. Use only explosive resistant and non-flammable material. It has doubt of causing damage on unborn child. If there is any exposure risk, pregnant or breastfeeding women should not work with this product. Avoid spilling on the aquatic environment. Do not handle before reading and understanding all precautionary phrases. Do not handle broken packages without protective equipment. Do not use empty containers again. When it is used, keep container tightly closed. Recommendations In case the skin is contaminated, wash immediately. Take off contaminated concerning general clothes and wash before use again. Do not eat and drink while using this occupational product. Wash your hands before eating, smoking and going to toilet. hygiene: Change work clothes every day before quitting the workplace.

7.2. Conditions for safe storage including disagreements

Storage measures: Keep only in its original container. Keep the container tightly closed, in a cool and well-ventilated ambient. Remove all sources of ignition. Take measure against static electricity discharges.

7.3. Definite final uses

It is stated in Part 1.2 in a detailed manner.

PART8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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8.1. Control parameters

Occupational exposure limits

Xylene

Limit value (TWA 8 - hours) : 50 ppm 221 mg/m³ (skin)

Limit Value (STEL 15 - minutes) : 100 ppm 442 mg/m³ (skin)

Butyl acetate

Limit value (TWA 8 - hours) : 150 ppm 710 mg/m³ (skin)

Limit Value (STEL 15 - minutes) : 200 ppm 600 mg/m³ (skin)

Xylene

PNEC Fresh water ; 0.327mg/l

Sea water ; 0.327 mg/l

Freshwater sediment; 12.46 mg/l

Sediment sea water; 12.46 mg/l

Soil; 2.31 mg/kg

DNEC Employees - Inhalation; Acute/Short-term exposure-systematic effect: 289 mg/m³

Employees - Inhalation; Acute/Short-term exposure-local effect: 289 mg/m³

Employees - Dermal; Long-term exposure - systematic effect: 289 mg/kg

Employees - Inhalation; Long-term exposure - systematic effect: 77mg/m³

General population - Inhalation;Acute/Short-term exposure- systematic and local effect:174.25 mg/m³

General population - Inhalation;Acute/Uzun-term exposure dermal effect: 108 mg/m³

General population -;Inhalation Long-term exposure systematic effect: 14.8 mg/kg

General population - Oral; Long-term exposure systematic effect: 1.6 mg/kg

Butyl acetate

PNEC Fresh water ; 0.18 mg/l

Sea water ; 0.18 mg/l

Water intermittent release ; 0.36 mg/l

Freshwater sediment; 0.981 mg/l

Sediment sea water; 0.0981 mg/l

Soil; 0.0903 mg/kg

DNEC Employees - Inhalation; Acute/Short-term exposure-systematic effect: 960 mg/m³

Employees - Inhalation; Acute/Short-term exposure-local effect: 960 mg/m³

Employees - Dermal; Long-term exposure - systematic effect: 480 mg/kg

Employees - Inhalation; Long-term exposure - systematic effect: 480 mg/m³

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General population - Inhalation;Acute/Short-term exposure- systematic and local effect:859.7 mg/m³
General population -;Inhalation Long-term exposure systematic effect: 102.4 mg/kg
General population - Inhalation; Long-term exposure local effect: 102.4 mg/kg

8.2. Exposure controls

8.2.1. Suitable engineering Controls Ensure sufficient ventilation. In order to minimize exposure of employees, apply process protection methods, local discharge ventilation and other technical controls as a main method. If exposure of employees can not be checked sufficiently with technical control measures, personal protective equipment should be used.

8.2.2 Personal Protective Equipment



Protection of Hands TS/EN

In order to protect hands against chemicals, gloves should comply with 374 Standard. Gloves manufactured from nitrile rubber should be used (material thickness > 0,1 mm, overflowing time < 30s). In case of long-term contact, protective gloves manufactured from butyl rubber are recommended. (material thickness > 0,7mm, overflowing time more than 60 minutes) Check whether gloves maintain their protective properties during the use according to data stated by glove producer, and if any deterioration is determined, change gloves as soon as possible.

Skin Protection

Wear suitable protective clothes.

Eye Protection

Wear protective goggles.

Respiratory Protection

When there is no sufficient ventilation, use suitable respiratory mask. Be careful that respirator is placed thoroughly, and replace the filter regularly. Gas filters and combined filter cartridges should comply with TS/EN 14387 Standard. Full face masks with replaceable filter cartridge should comply with TS/EN 136 Standard. Half or quarter face mask respirators with replaceable filter cartridges should comply with TS/EN 140 Standard.

Environmental Exposure

Conformity of ventilation emissions and business process equipments

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Controls with environmental protection regulations should be controlled.

PART9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

Appearance	Liquid
Color	Clear, colorless liquid
Odor	Characteristic
Odor threshold	No available information
pH	5,5
Melting point	-47.4°C (-53.3 F)
Boiling point	138.5
Flash point	30°C (86 F)
Evaporation rate	No available information
Flammability (solid, gas)	No available information
Upper/Lower flammability or explosive limits	No available information
Vapor pressure	0.9 kPa (20°C)
Vapor density	3.7 (air =1)
Solubility	Insoluble in water.
Partition coefficient: n-octanol/water	No available information
Auto-ignition temperature	500 - 500°C
Viscosity	No available information
Explosive properties	No available information
Oxidizing properties	No available information

9.2. Other information

No available information

PART10: STABILITY AND REACTIVITY

10.1. Reaction

Reaction under
There is no risk to enter into reaction with other substances
normal use conditions.

10.2. Chemical stability

Stability
Stable under normal use and storage conditions.

10.3. Possibility of harmful reaction

Possibility of harmful reaction
Its vapors can form explosive mixtures with air. It can react
with oxidizing agents.

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10.4. Conditions to avoid

Conditions to avoid

Avoid heat, flame and other sources of ignition. Formation of static electricity and sparks should be prevented. Containers can explode severely when heated, because excessive pressure occurs.

10.5. Substances to avoid

Substances to avoid

Avoid acids and oxidizing agents.

10.6. Detrimental Degradation Products

Detrimental degradation products

No degradation when used and stored in compliance with recommended conditions. In case of any thermal decomposition or fire, gases and vapors hazardous to health can be released.

PART 11: TOXICOLOGICAL INFORMATION

11.1. Information about toxic effects

Xylene

Acute toxicity LD₅₀(Oral)

5300 mg/kg Rat

Acute toxicity LC₅₀(Skin)

2000 mg/kg Rabbit.

Skin corrosion/irritation

Touching is harmful.

Serious eye damage/irritation

It causes serious eye irritation.

Respiratory
Sensitization

Classification criteria is not met based on available data.

Skin sensitization

Classification criteria is not met based on available data.

Carcinogenicity

Classification criteria is not met based on available data.

Reproduction system toxicity
Fertility

Classification criteria is not met based on available data.

Reproduction system toxicity
developmental

Classification criteria is not met based on available data.

Specific target organ toxicity-
Single exposure

Classification criteria is not met based on available data.

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Specific target organ toxicity-
exposure Classification criteria is not met based on available data.of Repeated

Aspiration loss Penetration into the respiratory tract and is lethal if swallowed.

General information Avoid contact during pregnancy / breastfeeding. Severity of identified symptoms can vary depending on concentration and duration of exposure.

Inhalation Single exposure can cause following adverse effects: Irritation of nose, throat and respiratory tract. Respiratory distress. Cough.

Ingestion It may cause irritation. Harmful if swallowed.

Skin contact Redness. It irritates skin. Eye contact: It irritates eyes.

Butyl Asetate

Acute toxicity LD₅₀(Oral) 13100 mg/kg Rat

Acute toxicity LD₅₀(Skin) 17600 mg/kg Rabbit.

Acute toxicity LD₅₀(Inhalation) >21.1 mg/kg Rat.

Skin corrosion/irritation Tauching is harmful.

Serious eye damage/irritation It causes serious eye irritation.

Respiratory
Sensitization Classification criteria is not met based on available data.

Skin sensitization Classification criteria is not met based on available data.

Carcinogenicity Classification criteria is not met based on available data.

Reproduction system toxicity
Fertility Classification criteria is not met based on available data.

Reproduction system toxicity
developmental Classification criteria is not met based on available data.

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<u>Specific target organ toxicity- Single exposure</u>	Classification criteria is not met based on available data.
<u>Specific target organ toxicity- Having repeated exposure</u>	Classification criteria is not met based on available data.
<u>Aspiration loss</u>	Penetration into the respiratory tract and is lethal if swallowed.
General information	Avoid contact during pregnancy / breastfeeding. Severity of identified symptoms can vary depending on concentration and duration of exposure.
Inhalation	Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit, mucous membrane and respiratory system irritation and kidney, liver and central nervous system may lead to adverse health effects such as illness.
Ingestion	Nausea, vomiting, diarrhea, gastrointestinal irritation and chemical pneumonia.
Skin contact	Redness. It irritates skin. Continuous exposure into the thick of It can cause drying or cracking of the skin.

PART12: ECOLOGICAL INFORMATION

General ecological information: Do not spill in sewer, soil or waters. Mixture was classified according to Republic of Turkey 28848 Annex-I. Valid health/ecological information for chemicals listed in Part 3 are as follows.

12.1. Toxicity

Ecological information about components

Butyl Asetate

Fish	EC ₅₀ , 48 hours 44 mg/l,	Pimephales promelas (Minnow)
Aquatic invertebrates	EC ₁₀₀ , 24 hours 18 mg/l,	Daphnia Water flea
Algae	EC ₅₀ , 72 hours 647.7 mg/l,	Green sea algae(Desmodesmus Subspicatus)
	NOEC, 72 hours 200 mg/l	Green sea algae(Desmodesmus Subspicatus)

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Additional information on ecology

Biological effects: Hazard for drinking water supplies. Water, waste water, or do not let the soil.

12.2. Persistence and degradability 83% (28 d), oxygen (aerobic), Self Readily biodegradable, OECD 301 D.

12.3. Bioaccumulative potential No data available.

12.4. Mobility in soil No data available.

12.5. PBT and vPvB Product does not contain any substance classified as PBT or vPvB.

Assessment results

12.6. Other adverse effects No available information.

Xylene

Fish	EC ₅₀ , 96 hours 16400 ug/l,(Death)	Pimephales promelas (Minnow)
Aquatic invertebrates	EC ₅₀ , 48 hours 18 mg/l,	Daphnia Water flea
Algae	EC ₅₀ , 8 hours 4200 ug/l,(growth)	Green sea algae(Selenastrum capricornutum)
Other	LC ₅₀ 48 hours 73000 ug/l (frog)	(Xenopus laevis)

Additional information on ecology

Biological effects: Hazard for drinking water supplies. Water, waste water, or do not let the soil.

12.2. Persistence and degradability Theoretical oxygen demand (ThOD) 3.125 mg / g

12.3. Bioaccumulative potential No data available.
Partition coefficient: n-octanol water
Log Pow: 3,13 Method: Experimental

12.4. Mobility in soil No data available. Products insoluble in water. Volatile liquid. The product contains organic solvents that can evaporate easily on all surfaces.

12.5. PBT and vPvB Product does not contain any substance classified as PBT or vPvB.
Assessment results

12.6. Other adverse effects Henry constant 525 Pa * m³ / mol Method: experimental
Distribution preferentially in air.

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PART13: DISPOSAL CONSIDERATIONS

13.1. Waste processing methods

General information	Do not allow to enter drains or watercourses. Waste formation should be minimized or waste formation should be avoided everywhere possible. Dispose of wastes and residues according to local authority and management requirements.
Waste processing methods	Dispose of remaining and non-recyclable products through a licensed waste disposal institution. Contaminated package should be thrown in accordance with recycling or national waste management regulations.

PART14: TRANSPORT INFORMATION

14.1. UN Number

Un No. ADR/RID: 1993
Un No. IMDG : 1993
Un No. IATA : 1993
Un No. ADN : 1993

14.2. Suitable UN Transport Name

ADR/RID: Flammable Liquid N.O.S (XYLENE and BUTYL ASETATE CONTAINS)
IMDG : Flammable Liquid N.O.S (XYLENE and BUTYL ASETATE CONTAINS)
IATA : Flammable Liquid N.O.S (XYLENE and BUTYL ASETATE CONTAINS)
ADN : Flammable Liquid N.O.S (XYLENE and BUTYL ASETATE CONTAINS)

14.3. Transport Hazard Class(es)

ADR/RID CODE : F1
ADR/RID Class : 3
Label : 3
IMDG Class : 3
Label : 3
IATA Class : 3
Label : 3
ADN Class : 3
Label : 3

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Transport Label:



14.4. Packaging Group

ADR / RID, IMDG, IATA, ADN : III

14.5. Environmental Damages

ADR / RID : NO
IMDG : NO
IATA : NO
ADN : NO

14.6. Special Measures for the User

Hazards Identification
Number ADR/RID : 30
Special Provisions : 274-601-640E
EMS : F-E, S-E
Tunnel Restriction
Code : 3(D/E)

14.7. Bulk transport according to MARPOL 73/78 Annex II and IBC code

No suitable information.

PART15: REGULATORY INFORMATION

15.1. Safety, health and environment regulation peculiar to substance or mixture

National regulations Regulation on Classification, Labeling and Packaging of Substances and Mixtures dated 11 December 2013 and numbered 28848.
Republic of Turkey, Ministry of Environment and Forestry, Regulation on Classification, Packaging and Labeling of Dangerous Substances and Preparations dated 26 December 2008 and numbered 27092.
Occupational Health and Safety Law No. 6331.
Regulation on Health and Safety Measures in the Studies with Chemical Substances.

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Regulation on Use of Personal Protective Equipments in the Workplaces
Regulation on Control of Dangerous Wastes

Chemical Safety Assessment Chemical safety assessment has not been made.

PART16: OTHER INFORMATION

Classification conditions according to regulation dated 11 December 2013 and numbered 28848	FLAM. LIQ.3 Akute Tox.4 Skin Irrit.2 Akute Tox.4	Flammable Liquid Akute Toxicity (Skin) Skin irritation Akute Toxicity (Respiratory)	Category 3 Category 4 Category 2 Category 4
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Hazards phrases:

- H226 : Flammable liquid and vapor.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H332: Harmful if inhaled.
- EUH066: Repeated exposure may cause skin dryness or cracking.

Abbreviations:

- SEA : Regulation on classification, labeling and packaging of substances and mixtures.
- UZEM : National poison information center
- Cas No : Chemical Abstracts Service
- EINECS No: A descriptive list of all substances in the European Union community market.
- Un Number : Numbers to be requested from you by international courier and airway companies if you demand to transport any material which can be considered as dangerous.
- TWA : Short-term exposure limit
- STEL : Time-weighted average exposure limit
- PNEC : Predicted No-Effect Concentration - Environmental hazards
- DNEL : Derived No-Effect Level (for people)
- LD 50 : Lethal dose 50 %
- LC 50 : Lethal concentration 50 %
- IARC : International Agency for Research on Cancer
- PBT : Permanent and bioaccumulative and toxic
- vPvB : Very permanent and very bioaccumulative



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ADR	: European agreement concerning the international carriage of dangerous goods by road
IMDG	: International Maritime Dangerous Goods Code
RID	: Regulation on the international carriage of dangerous goods by rail
IATA(DGR)	: International air transport association dangerous goods regulation
ADN	: European agreement concerning international carriage of dangerous goods by inland waterways

Issuer of Material Safety Data Sheet:

Name/Surname: Gülcan İrmak

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Certificate no : GBF- A-0-2286

Date of Certificate: 23.03.2016

Date of Expiry: 23.03.2019

Information contained in this material safety data sheet are based on our current knowledge and experience and describe the product with regard to safety requirements. Information does not describe the specifications of product (product specification). Any agreed specification or conformity of product with a specific purpose cannot be relied on information contained in this material safety data sheet. Product purchaser is responsible for protection of intellectual property rights and conformity with current laws and regulations in force.