

	DOĞAL KİMYEVİ MADDELER VE ZİRAİ İLAÇLAR SANAYİ VE TİCARET A.Ş TS EN ISO 9001 TS EN ISO 14001 OHSAS 18001	Date of Issue	27.03.2017
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GREENHOUSE SHADER MATERIAL SAFETY DATA SHEET			

1. IDENTIFICATION OF MIXTURE AND COMPANY

1.1 MIXTURE IDENTIFIER

Name of mixture : GREENHOUSE SHADER
Usage Area of Mixture : Greenhouse Sun Shield
Chemical Group of Active Substance :
Chemical Formula of Active Substance: Mixture
Molecular Weight of Active Substance :
IUPAC Name of Active Substance :

1.2 SPECIFIED AND NON-RECOMMENDED USES OF MIXTURE

Usage Area : Greenhouse Sun Shield
CAUTION! : Do not use this product where it can contact with food.

1.3 INFORMATION ON PRODUCT SAFETY DATA SHEET SUPPLIER

Company Name : Doğal Kimyevi Maddeler ve Ziraî İlaçlar San. Ve Tic. A.Ş
Address : Toplarönü Sok. No: 16
Anadolu Hisarı- İstanbul/TURKEY
Phone : +90 216 308 6587
Fax : +90 216 308 6584
GBF Authorized Person : hilmikor@dogaltrm.com

1.4 EMERGENCY PHONE NUMBER

Emergency Phone Number : +90 216 308 6587
National Poison Hotline 114



Prepared by / Position
Certificate No FR-047/00

: Hilmi KOR/ Chemical Engineer
: GBF-A-0-2850

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2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF MIXTURE

Classification according to Regulation on Classification, Labeling and Packaging of Substances and Mixtures (RG: 11.12.2013, 28848 Bis.) (SEA)

Hazards Classification:

Class and H statements,
Non - classifiable

2.2 LABEL ELEMENTS

Name of Mixture:

GREENHOUSE SHADER

Content: Limestone, silicium
dioxide crystal

Hazards Statements:

There is no hazards statements

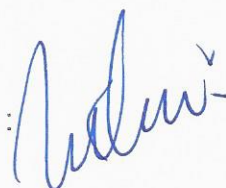
2.3 OTHER HAZARDS

No data available.

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3. INFORMATION ON COMPOSITION OF MIXTURE

3.1 SUBSTANCES

Not applicable.

3.2 MIXTURE

This product is a mixture.

NAME OF SUBSTANCE	EC No.	CAS No.	Concent. % w/w	SEA
				Class, H Statements
Limestone	---	1317-65-3	>62	Undetermined
Silicium dioxide crystal	---	14808-60-7	0.06-1.25	Undetermined

NOTE: PLEASE SEE SECTION 16 FOR DESCRIPTION OF H AND R STATEMENTS.

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4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General : Get medical advice in all suspicious circumstances.
Eyes : Wash with plenty of water when it gets in contact with eyes.
Skin : Take off contaminated clothing. Immediately wash with water and soap.
Respiration : Take the victim outside. If the patient is conscious, lay the patient down by his/her side
When Swallowed: If the patient is faint do not give anything from mouth. Call a doctor immediately.
Note to Physician: There is no specific antidote. Medical treatment is applied according symptoms.

4.2 IMPORTANT ACUTE AND DELAYED SYMPTOMS AND EFFECTS

Poisoning symptoms.

4.3 FIRST INDICATIONS FOR MEDICAL ATTENTION AND SPECIAL TREATMENT

See: Note to Physician (4.1)

5. FIREFIGHTING MEASURES

5.1 FIRE EXTINGUISHERS

Suitable fire extinguishers : Carbon dioxide, dry chemical powder or water vapour and alcohol resistant foam.
Unsuitable fire extinguishers : There is no restriction on extinguishing media for this mixture.

5.2 SPECIFIC HAZARDS ARISING FROM THE MIXTURE

Unexpected fire and explosion hazards : noninflammable.

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Hazardous combustion products

: In case of fire, CO_x, NO_x, CL₂, HCL gases may occur. It may cause explosive mixtures with air under heavy heat.

5.3 ADVICE FOR FIREFIGHTERS

Use full face mask and protective cloths. Use self-contained breathing apparatus. Keep the team away from smoke and respond to a fire with tail wind. Use water spray for cooling exposed containers. Absorb the substance mixed with water at the end of fire fighting to prevent it from entering into sewage.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL MEASURES, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment specified in the Section 8.

6.2 ENVIRONMENTAL MEASURES

Keep away from surface and underground waters. Prevent it from entering into sewage.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Use and absorbent material for spills (for example, dry sand or earth) and collect them in chemical material waste containers. Observe any potential material restrictions. (See: Section 7 and 10)

6.4 REFERENCES TO OTHER SECTIONS

If any, references to other sections have been given under previous sub-sections. Please see section 13 for indications on waste treatment.

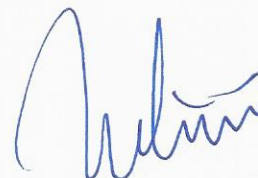
7. HANDLING AND STORAGE

7.1 MEASURES FOR SAFE HANDLING

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Take shower after use. Take of contaminated clothes. Use only in ventilated areas. While carrying, earth and immobilize. Empty containers may contain hazardous materials. Keep containers closed. Take care of precautions on the label.

7.2 CONDITIONS FOR SAFE STORAGE INCLUDING INCOMPATIBILITIES

Keep away from heat, spark and flame. Keep away from igniting sources. Keep containers tightly closed when storing. Store in a cool, well ventilated place away from incompatible materials.

7.3 SPECIFIC END-USES

No specific use is prescribed rather than those uses identified under Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

SUBSTAN NAME	TWA (mg/m ³)	TWA (ppm)	STEL (mg/m ³)	STEL (ppm)	SPECIAL SIGN
	---	---	---	---	---

TWA: Time weighted average measured or calculated for reference period specified as 8-hour

STEL: Unless any other period is specified. Upper exposure limit value required not to be exceeded for a period of 15 minutes.

SPECIAL SIGN: "Skin" sign shows that it can penetrate into body through skin in a considerable quantity.

8.2 EXPOSURE CONTROLS

8.2.1 SUITABLE ENGINEERING CONTROLS

Provide appropriate general and local ventilation and keep the substance concentration in environment under permissible limits. An eye wash should be made available in places where this mixture is used and stored.

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8.2.2 PERSONAL PROTECTIVE EQUIPMENT

Eyes : Use suitable safety glasses. For example, according to EN 166
Skin : Use suitable gloves to avoid from contact with skin.
Cloth : Use protective clothing against chemicals to avoid from contact with skin.
Respiration: When required, use a respiratory device in accordance with EN 149.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White, viscous liquid
Odour : Characteristic
pH : 8-10
Melting point/Freezing point : No data available
Starting boiling point and boiling range : No data available
Flash point : No data available
Flammability (solid, gas) : No data available
Upper/Lower flammability or explosive limits: No data available
Vapour pressure : No data available
Vapour density : No data available
Relative density : 1,45 g/ml
Solubility : Gives emulsion in water

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Distribution factor: n-octanol/water : No data available

9.2 OTHER INFORMATION

10. Stability and reactivity

10.1 REACTIVITY

The product does not enter into dangerous reaction

10.2 CHEMICAL STABILITY

Stable under normal environmental conditions and at temperature and pressure under prescribed storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not applicable

10.4 CONDITINS TO AVOID

High temperature and poor storage conditions

10.5 SUBSTANCES TO AVOID

Acids, bases, peroxides, oxidising agents, reducing agents, and agents entering into reaction with water

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

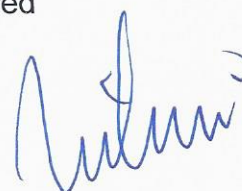
11.1 INFORMATION ON TOXUCOLOGICAL EFFECTS

Acute toxicity : Non toxic if swallowed

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Skin corrosion/irritation	: Non-irritant to skin
Eye irritation/damage	: Non-irritant to eye
Respiratory or skin sensitisation	: Not sensitising
Germ cell mutagenecity	: Not mutagen
Carcinogenicity	: Not carcinogen
Reproductive toxicity	: Not toxic for reproduction
Specific target organ toxicity –single exposure	: No specific target organ toxicity
Specific target organ toxicity-repeated exposure	: No specific target organ toxicity
Aspiration hazard	: No data available
LD₅₀, acute toxicity estimations	: >2000 mg/kg (Oral, Rat)
LC₅₀, acute toxicity estimations	: >2000 mg/kg (Rat)

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Acute toxicity for fish	: >1000 mg/l
Acute toxicity for invertebrates living in aquatic environment	: >100 mg/l (Daphnia)

12.2 PERSISTENCE AND DEGRADABILITY

Biological degradability: It is not degradable in biological treatment plants. It tends to be removed in biological treatment plants after industrial treatment process.

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12.3 BIOACCUMULATIVE POTENTIAL

If the active substance is used in excessive dosage, it can cause biological accumulation.

12.4 MOBILITY IN SOIL

No relevant data available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not performed

12.6 OTHER ADVERSE EFFECTS

Uncontrolled release to the environment must be avoided in order to prevent from adverse effects.

13. INFORMATION ON DISPOSAL

13.1 WASTE TREATMENT METHODS

Do not flush down sewers.

Dispose of your wasters according to national regulation. (Regulation on General Principles of Waste Management (RG: 05.07.2008, 26927)

Dispose of waste packaging according to regulation.

Do not mix with other wastes

14. TRANSPORT INFORMATION

ADR/RID Class : This product is not included to any transport regulation since it is not belong to any hazard class.

BM No :

Packaging Group :

Shipping Name :

Additional Information

Danger No

Tunnel

Restriction Code:

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IMDG Class This product is not included to any transport regulation since it is not belong to any hazard class.

BM No :

Packaging Group :

Shipping Name :

Marine Pollutant :

Additional Information

EmS :

ICA/IATA Class This product is not included to any transport regulation since it is not belong to any hazard class.

BM No :

Packaging Group :

Shipping Name :

Additional Information

Restricted Quantity :

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATION SPECIFIC FOR THE MIXTURE

Regulation on Recommendation, Application and Recording Procedures of Plant Protection products (R.G: 03.12.2014, 29194)

Regulation on Biocidal Products (R.G: 31.12.2009, 27449 (4. Rep.))

Regulation on Control of Large Industrial Vessels (R.G: 30.13.2013, 28867 (Rep.)) Regulation on Health and Safety Measures in Works with Chemical Agents (R.G: 12.08.2013, 28733)

16. OTHER INFORMATION

The mixture is classified according to Additionality and Additivity Method of Regulation on Classification, Labeling and Packaging of Substances and Mixtures (R.G: 11.12.2013, 28848 (Rep.)).

Description of Hazards Statements and Risk Statements given under Section 3:

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Hazards Statements: H's

H Statements Description

There is no H statements description

Revision Information:

It is re-prepared according to Regulation on Material Safety Data Sheets for Hazardous Substances and Mixtures (13 December 2014, 29204). It is a revision.

Data Source and References:

This MSDS is prepared based on information obtained from internal references within our Company.

Abbreviation and Acronyms:

Concent. : Concentration. , **EC No:** Number given by the European Committee according to structural property of the substance, **CAS No:** Number given by the "Chemical Theories Service", **LD₅₀:** Lethal Dose, **LC₅₀:** Lethal Concentration, **EC₅₀:** Effective Concentration, **PBT:** Persistent, Bio-accumulative and Toxic Compound, **vPvB:** Very persistent and bio-accumulative compound, **ADR/RID:** Hazardous Materials Road/Railway Transport, **IMDG:** Hazardous Materials Maritime Transport, **ICAIATA:** Hazardous Materials Airway Transport, **BM:** United Nations, **B.B.B:** Unless specified elsewhere, **MSDS:** Material Safety Data Sheet. **EEC:** European Economic Council

MSDS prepared by: Hilmi KOR

Contact Information: hilmikor@dogaltrm.com

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Date of Certificate: 06.08.2018

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Information in this Safety Data Sheet is prepared in accordance with Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (13 December 2014, 29204). Information in this Safety Data Sheet is informative for users, and should not be considered as instruction. This information consists of current information compiled about this product. Users may require additional information about problems to occur during use of this product. The required information is compatible with EEC Laws. The information is only belongs to relevant product and not applicable for mixture of other substances unless specified in the form. The information in this sheet does not give any guarantee with regard to properties of the product. Due to disorder of data sources, we do not take responsibility for such MSDSs obtained from other sources rather than us. If you are not sure about the up-to-datedness of the MSDS under your possession, please get in touch with us for the latest version of MSDS.

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