



SAFETY DATA SHEET

This Document Have Been Prepared According To "Regulations On Safe Management Of Hazardous Chemicals Which Involves Preparation And Distribution Of Hazardous Materials And Preparations (Date 13.December.2014 And 29204)"

Name of Substance / Mixture	HDPE Based DIMPLED SHEET - SNTDRAIN GEO 8	Preparation Date	18.05.2018
		Revision date	03.03.2020
Document number	BF.02.03.02	Revision No	TR-03
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1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Name of Substance / Mixture

Product name : HDPE Based GEOCOMPOSITE DRAINAGE SHEET
Product code : GEO 8

1.2. Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Use :It is used to ensure safe drainage in vertical and horizontal applications. It protects the curtain walls under the soil from water and moisture and provides continuous drainage thanks to the filter layer.

1.3. Safety Data Sheet Supplier Information

Suppliers **SİNTAR MÜHENDİSLİK İNŞ.SAN.TİC.LTD. ŞTİ.**
GüldibiMah. İzmit Cad.Taşlık Sk. No:13/A Sapanca Sakarya- TÜRKİYE
Phone : +90 264 582 92 55
Fax : +90 264 582 92 57
info@sntdrain.com.tr
www.sntdrain.com.tr

1.4. Emergency Telephone Number

UZEM Phone : 114 (National Poison Information Centre)

2 HAZARDS IDENTIFICATION

2.1. Classification of Substances and Mixtures

According to the Regulation on Substances and Mixtures SEA (RG 11.12.2013 Number.28848 repeated);
Not harmful, Not classified. No specific precautionary statements are required.

2.2.Label Features

According to the Regulation on Substances and Mixtures SEA (RG 11.12.2013 Number.28848 repeated);
Does not require GHS Labeling.

2.3. Other Losses

According to the Regulation on Substances and Mixtures SEA (RG 11.12.2013 Number.28848 repeated);
Given the storage and use regulations, there are no known specific hazards.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Materials

No relevant information

3.1. Mixture

Name	EC No.	CAS No.	Cons. %	Classification
High Density Polyethylene	618-339-3	9002-88-4	80-95	Not Classified
Carbon Black	-	-	10-20	Not Classified
CaO	-	-	1-10	Not Classified
CaCO ₃	-	-	1-25	Not Classified

The bonding of the HDPE sheet and geotextile is done by heat treatment. No other chemicals are used.

* The latest data are given in accordance with the Republic of Turkey and the European Union regulations.



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4 FIRST AID MEASURES

4.1. Description Of First Aid Measures

Eye Contact : Vapors generated in the process may irritate the eyes. Rinse eyes with running water for at least 15 minutes. Seek medical attention.

Skin Contact : In case of contact with molten hot product, wash skin with plenty of water and wrap with sterile cloth. Do not try to pull if there is something stuck to the skin. Apply direct ice and seek medical advice.

Ingestion : No toxic hazard.

Inhalation : If fumes are inhaled in the event of a fire, remove the person to fresh air immediately.

4.2. Important Symptoms and Effects Seen Acutely and Later

Specific information about the symptoms and effects caused by the product is not known. For symptoms and effects caused by Ingredients, see ingredients. Chapter 11.

4.3. First Signs for Medical Intervention and Special Treatment

No special treatment required. Treat it symptomatically.

5 FIRE FIGHTING MEASURES

5.1. Fire Extinguisher

Used to Extinguish a Fire : Water mist, foam, carbon dioxide, dry chemical, synthetic foams, alcohol resistant foams.

Unsuitable Fire Fighting Vehicles : Do not use water jets. Water is not effective for extinguishing fires, but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special Hazards Arising From The Substance Or Mixture Unusual Fire And Explosion Hazards

Containers exposed to fire may be exposed to excessive pressure, creating a risk of explosion. Toxic gases may be released during combustion; It may include combustion by-products such as carbon dioxide, carbon monoxide and aldehydes. Be careful not to inhale flammable products.

5.3. Recommendations for Fire Fighting Teams

General Information

Cool containers using water jets to prevent dissolution of the product and the appearance of potentially hazardous substances. Always install fire prevention equipment. Collect the fire fighting water at one point and prevent it from spilling into the sewage system. Dispose of contaminated water and fire residues used to extinguish fire in accordance with applicable regulations.

Protective Equipment

Independent open-circuit positive-pressure breathing apparatus (BS EN 137) as well as normal fire fighting clothing, fire extinguisher kit (BS EN 469), gloves (BS EN 659) and boots (HO specifications A29 ve A30).

6 ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear suitable protective equipment (including personal protective equipment mentioned in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions apply to both the personnel performing the operation and the persons involved in emergency procedures. Remove persons who have not been fitted with the appropriate equipment. Remove all sources of ignition (cigarettes, flames, sparks, etc.) from the area where the leak occurs..

6.2. Environmental Precautions

If the product melts as a result of combustion, prevent leakage from spreading away from treatment plant or water channel. Avoid creating dust clouds.

6.3. Methods and Materials for Preserving and Cleaning

Avoid disposal of the product in the environment. Lift the product mechanically. Recover material or solid waste at a licensed facility

6.4. Refer to Other Sections

For personal protection see section 8. See Section 11 for additional information on health hazards. See Section 13 for waste disposal.



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7 HANDLING AND STORAGE

7.1. Precautions for Safe Handling

The product must be kept in a moisture-free environment and protected from sunlight. Keep away from heat, sparks, open flames; Do not smoke, do not use matches or lighters. Ensure adequate ventilation.

7.2. Conditions for Safe Storage Including Disputes

Store in accordance with local regulations. Store in a dry and cool place, in its original packaging and protected from UV rays. Rolls should be transported upright and stacked. Pallets should never be stacked. And should be stored away from direct heat source.

7.3. Specific End Use

Information does not exist.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

There is no specific control limit for high density polyethylene. However, the limit value for the non-toxic dust concentration in ambient air is 10 mg / m^3 .

8.2. Exposure Controls Personal

8.2.1. Appropriate Engineering Controls

A well-ventilated environment should be provided to prevent the accumulation of smoke and dust. There should be an emergency shower with face and eye wash stations. Personal protective equipment should be managed to provide maximum protection. To avoid significant accumulation in the organism, exposure levels should be kept as low as possible.

8.2.2. Individual Protective Measures, eg Personal Protective Equipment

Respiratory Protection Measures:

In case of exceeding the threshold value (eg TLV-TWA) for one of the substances or substances contained in the product, wear a type A filter mask that must be selected according to the class use intensity limit (1, 2 or 3). (see standard EN 14387) If gas, vapor types, or various types of particles (aerosol sprays, smoke, fog, etc.) are present in the environment, a combined filter must be used. Respiratory protection should be worn if the technical measures applied are not suitable for restricting the exposure of workers to the thresholds assessed.

If the substance is odorless or if the odor threshold is higher than the corresponding TLV-TWA and in an emergency (in accordance with EN 137 standard), wear an open-circuit air-pressure respirator or (with EN 138 standard) breathing apparatus with external air intake. To select the correct breathing apparatus, see EN 529.

Hands Protection:

Protect your hands with category III work gloves (see standard EN 374). The following must be considered when selecting work glove material: suitability, degradation, downtime and permeability. Work gloves must be inspected prior to use as resistance to chemicals is unpredictable. Gloves wear time varies depending on the type and duration of use.

Eye Protection:

Safety glasses in accordance with an approved standard must be used. Recommended: Face-fitting safety goggles.

Health Measures:

Do not smoke in working places! Wash hands, arms and face thoroughly before eating, smoking, or using the toilet, at the end of the work period, after handling chemical products. Take off immediately all contaminated clothing. In case of skin contamination, wash immediately with soap and water. Wash contaminated clothing before reuse. Make sure eye wash stations and safety showers are close to the work area.

Skin Protection:

Category II. wear professional long-sleeved overalls and protective footwear (see Directive 89/686 / EEC and standard ISO 20344). After taking off the protective clothing, wash the body with soap and water. Wear antistatic clothing in explosive work environments.

Environmental Exposure Controls:

Compliance with environmental standards must be ensured during production processes and by controlling emissions from ventilation equipment. Product residues should not be disposed of without being separated from waste water or disposed of in waterways.



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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance	Solid at Room Temperature
Color	Black or Brown
Smell	Little
Explosive Properties	Not explosive
pH	Not available
Flash Point	Not available
Evaporation Rate	Not available
Viscosity	No Application (kinematics)
Boiling Rage	Not available
Temperature Resistance	-40 to +80 degrees

9.2 Other Informations

Information not available

10 STABILITY AND REACTIVITY

10.1. Reaction

Stable under normal conditions of use.

10.2. Chemical Stability

The product is stable under normal conditions of use and storage. Thermal decomposition above 320 ° C may occur.

10.3. Possibility of Hazardous Reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to Avoid

There is no case to be avoided if the recommended storage and handling conditions are met. (see section 7). Keep away from heat, sparks and flame. When the concentration of airborne dust exceeds 10 g / m³, dust formation should be avoided as there is a risk of explosion. Avoid contact with strong oxidizing agents. The process temperature should not exceed 320 ° C.

10.5. Substances to be Avoided

Information does not exist.

10.6. Harmful Decomposition Products

In the event of thermal decomposition or fire, release of toxic gases or vapors which may be hazardous to health may occur. Hazardous polymerization does not occur.

11 TOXICOLOGICAL INFORMATION

11.1 Information About Toxic Effects

This product is not classified as a carcinogenic substance by OSHA, IARC and ACGIH. The substances it contains are not substances that genetically mutate, cause defective organs or tissues, and produce toxins.

12 ECOLOGICAL INFORMATION

No special data are available for this product. Use in accordance with the correct working practices. Avoid disposing of the garbage in the environment. Avoid contaminating soil and water courses. Inform the competent authorities if the product contaminates the soil or vegetation.

12.1. Toxicity	No data available.
12.2. Persistence and Degradability	No data available.
12.3. Bioaccumulation Potencial	No data available.
12.4. Soil Mobility	No data available.
12.5. Results of PBT and vPvB Assessment	No data available.
12.6. Other Adverse Effects	No data available.



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13 DISPOSAL INFORMATION

13.1. Waste Treatment Methods

Reuse if possible. Product residues should be treated as special hazardous waste. The hazard level of the waste containing this product must be assessed in accordance with the relevant regulations.

Disposal must be carried out by an authorized waste management company in accordance with national and local regulations. Waste handling practices may be subject to ADR restrictions.

DIRTY PACKAGING: Recycling or disposal of dirty packages should be carried out in accordance with national waste management regulations.

14 TRANSPORT INFORMATION

UN No. (ADR/RID/ADN)	Not classified as dangerous in the ADR / RID Regulation.
UN No. (IMDG)	Not classified as hazardous chemicals in IMDG Regulations
UN No. (ICAO)	Not classified as hazardous chemicals in ICAO Regulations.

14.1. UN Number	ABSENT
14.2. Proper UN Transportation Name	ABSENT
14.3. Transport Hazard Class(es)	ABSENT
14.4. Packing Group	ABSENT
14.5. Environmental Damages	ABSENT
14.6. Special Precautions for User	ABSENT
14.7. Transport in Bulk According to MARPOL 73/78 ek II and the IBC Code	No data available.

15 LEGISLATION INFORMATION

15.1. Safety, Health And Environmental Regulations / Legislation Specific For The Substance Or Mixture

National Legislation

- T. C. Ministry of Environment and Urbanization, Regulation (EC) No 28848 of 11 December 2013 on Classification, Labeling and Packaging of Substances and Mixtures.
- T. C. Ministry of Environment and Urbanization, Waste Management Regulation No. 29314 dated 2 April 2015.
- T. C. Ministry of Labor and Social Security, Regulation (EC) No 28733 of 12 August 2013 on Health and Safety Measures in the Study of Chemical Substances.
- T. C. Ministry of Labor and Social Security, Regulation No. 28695 of 2 July 2013 on the Use of Personal Protective Equipment in the Workplace.
- T. C. Ministry of Labor and Social Security, Occupational Health and Safety Law No. 6331 dated June 30, 2012.
- T. C. Ministry of Environment and Urbanization, dated December 13, 2014, numbered 29204, "Hazardous Substances and Mixtures Regulation on Safety Data Sheets

16 OTHER INFORMATION

ABBREVIATIONS

ADR	European Convention on the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Law for Dangerous Goods
IMO	International Maritime Organization
RID	Implementing Regulation on International Transport of Dangerous Goods by Rail
IATA DGR	International Air Transport Association Dangerous Goods Regulation
CAS NUMBER	Chemical Name Service Number
SEA	Implementing Regulation on the Classification, Labeling and Packaging of Substances and Mixtures 2013/28848
GHS	Globally Harmonized Chemicals Classification and Labeling System
TLV	Threshold Limit Value
TWA	Time Weighted Average
PBT	Permanent, bioaccumulative and toxic according to REACH Regulation
vPvB:	According to REACH Regulation Very persistent and very Bioaccumulative



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Revision Statement

SDS, 29204 And 28848 İn Accordance With The Regulations.

Governing

Neslihan ELLİALTIOĞLU / ENÇİ TMGDK - Certified SDS Preparation neslihan@encitmgdk.com
Certificate Number and Date: 01.193.07 /30.07.2019

EDITING NOTE

This SDS is based on information and documentation from the product owner. The SDS developer and / or ENÇİ TMGDK cannot be held responsible for the inaccurate arrangement of the prepared SDS due to the fact that these information and documents are incomplete or inaccurate and for the material damages and moral problems encountered by the product owner.

DISCLAIMER

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