

MOGUL

SPUNBOND - MELTBLOWN - SPUNLACE NONWOVENS

August 23, 2017

Dear Customer,

The enclosed (Material) Safety Data Sheet(s) (SDSs) is being sent as a result of either a request or a recent product order from MOGUL Nonwovens.

The Occupational Safety and Health Administration (OSHA) mandate the issuance of SDS pursuant to the requirements of the (US) Federal Hazard Communication Standard (29 CFR 1910.1200). To the best of our knowledge, the enclosed SDS is in compliance with the requirements of the OSHA Hazard Communication Standard.

Nonwovens are generally known to be not hazardous. SDS is not legally requested but must be considered as information. It is based on the EC recommendation for SDS (Commission directive 93/112/EC of 10 Dec. 93)

The information contained in this SDS has been developed by the Company on the express request of its customers and to the best of valid knowledge. Therefore, the company does not assume any liability with respect to the correctness and/or completeness of the information provided by the SDS. The customer in particular shall not be released from his duty to check all safety relevant properties of the delivered nonwovens and to refer to the official texts for full information on the local obligations.

For more information about the contents of this SDS please contact us. To obtain copies of SDSs on other MOGUL Nonwovens products, call us (+90(342)337 1499) or fax your request to us (+90(342)337 1413) or send your request by email (mogul@mogulsb.com).

Thank you for your interest in MOGUL Nonwovens products.

Sincerely,

MOGUL Nonwovens – Quality Control Department

Product type: **SPUNLACE**

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MOGUL KUMAS SANAYI VE TICARET LIMITED SİRKETİ

2. Organize Sanayi Bölgesi 83228 nolu cadde No:8 Şehitkamil / Baspınar GAZİANTEP – TURKEY

TRADE NAMES: AQUALACE®, DURELL®
PRODUCT CODE: Spunlace [parallel and cross-lapped products including cut fibers of polyester, viscose (Tencel) rayon, cotton, polypropylene and their blends among each other in color white]

SECTION 01: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Telephone; +90(342)3371499 or +90(342)3371598

Fax; +90(342)3371413

e-mail; mogul@mogulsb.com

web site; www.mogulsb.com**EMERGENCY PHONE NUMBER:** As above**MATERIAL USE:** Please refer to technical literature**SECTION 02: HAZARDS IDENTIFICATION**

Not hazardous under normal conditions. (Accidental thermal decomposition or melting state can present hazards.)

Not classified as hazardous product by **OSHA** Hazard Communication Standard (**29 CFR 1910.1200**)No ingredient classified under **REACH/SVHC** and (EC) No. 1272/2008 (**CLP**)Not dangerous substance according to **GHS Classification**.Not a controlled product for **WHMIS Classification**.Not dangerous substance according to **TDG Classification**.**NFPA/HMIS Hazard Ratings:** none (0) → extreme (4)**Health:** 0**Fire:** 1**Reactivity:** 0**SECTION 03: COMPOSITION / INFORMATION on HAZARDOUS INGREDIENTS**

Nonwoven: Carded cut fibers, hydro bonding and hot air through dry, hygiene process
Containable individual fiber: More than 99% polyethylene terephthalate (CAS No: 25038-59-9)
More than 99% viscose (Tencel) (CAS No: 9004-34-6)
More than 99% cotton (CAS No: Not Applicable-Natural Occurring Substance)
More than 99% polypropylene (CAS No: 9003-07-0)
Binder: No
Chemicals: No
Web surface treatment: No
Additives: Less than 0,1% (not an additive, for possible impurities)
Other major components: Fibers may contain approximately 1% finish and TiO₂ (CAS No: 13463-67-7)

SECTION 04: FIRST AID MEASURES

Inhalation: No specific measure to be taken **under normal conditions**. In case of perpetual coughing or other symptoms person should take to fresh air. For continuing complains contact a physician.

Carcinogenicity: No specific information available. See **SECTION 11**.

Skin contact: No specific measure to be taken. If redness or **irritation** persists use good personal hygiene and wash thoroughly after handling. In case of high allergic sensitivity, contact over longer periods. For continuing complaints contact a physician.

Eyes contact: No specific measure to be taken. If **irritation** occurs, flush eyes immediately with large amounts of water for at least 15 minutes and continue flushing until irritation subsides. If redness or irritation persists, in case of foreign body in eye, contact a physician.

Ingestion: No specific measure to be taken. If a significant quantity swallowed seek medical attention.

Long term/delayed effects: If overheated, may affect those with chronic diseases of respiratory system. Consult a doctor.

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SECTION 05: FIRE AND EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABILITY:	Not easily flammable. (can flame higher than 250°C (480°F))
Suitable extinguishing media:	Use water spray, dry chemical, foam, CO ₂
Extinguishing-media not to be used:	No.
Special firefighting procedures:	No. Standard procedure for class A fires.
Hazardous Combustion Products:	When heated above the melting point; carbon monoxide, carbon dioxide, acrolein, ketones, aldehydes and other unidentified organic compounds can be formed. For flammable and toxic fumes as well as skin contact with molten materials see SECTION 10 .
Special exposure hazard:	Large fires in confined areas; use NIOSH / MSHA approved self-contained breathing apparatus. Use water, fog, spray to cool exposed equipment & containers.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Not applicable.

SECTION 07: HANDLING AND STORAGE

Before usage; Store in a cool and dry place with proper (original) package, away from direct sunlight.
Shelf Life; Physical appearance, microbiological specs can differ for long term storage despite proper conditions.
After usage; Can be harmful according to the used area. Aware of used material (and dirt empty pack or containers) to be contact with food & skin or children & animal consumption.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

No specific equipment needed. General ventilation should be adequate for normal use.

Permissible Exposure limits:	<u>inhalable / total dust</u>	<u>Polyolefin - Cellulose</u>
	TWA (8 hour)	10 mg/m ³ (for coarse dust)
	Short term (15 min.)	Not established

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Available in white color and different shape/dimension.
Odor:	No specific odor
pH:	6-8 in water
Boiling point:	Not applicable
Melting point:	Greater than 160°C (320°F) (for polymers)
Decomposition temperature:	Greater than 170°C (340°F)
LOI	~ 19% (for cellulosic products)
Flash point:	Not applicable
Flammability:	Not easily flammable
Auto flammability:	Auto ignition temperature: >250°C (>480°F)
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Vapor pressure:	Not applicable
Relative density:	~ 0,6 – 1,6 (water=1)
Solubility in water:	Insoluble
Solubility in fats:	Insoluble
Partition coefficient: n-octanol/water:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage.

Conditions to avoid;Material **dust and fly may source a fire hazard at sufficient concentrations in the presence of ignition sources.**

Under thermal decomposition conditions flammable and toxic fumes can be generated.

Above 170°C (340°F) may be released: toxic and flammable gases, carbon monoxide. The generation of cleavage

and oxidation products is subject to fire conditions. Hazardous polymerization is not estimated.

Not burned residues and contaminated water after firefighting should be disposed of in compliance with official regulations. Use protective gloves for molten.

The product can react with strong oxidation agents, acids and basis. Avoid from contact with concentrated; acetic anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxan, ethyl acetate, methyl ethyl ketone, methylene chloride, phenol, tetrahydrofuran, trichloroethylene, triethanolamine, caustic soda.

SECTION 11: TOXICOLOGICAL INFORMATION

No toxic reaction known under normal conditions. **LD50 & LC50, Reproduction Toxicity, Teratogenicity, Mutagenicity, Synergistic Products, Sensitization to Product** is not available. Meets the requirements of **Oeko-Tex standard 100 (Class-1)**, indicating absence of harmful substances. **Biocompatible** according to product tests for cytotoxicity, sensitization and irritation (by standard series ISO 10993-5, ISO 10993-10 and ISO 10993-12). For individual irritancy see **SECTION 4**.

Carcinogenicity: Not classifiable for IARC, NTP, EPA, ACGIH and OSHA. No listed ingredient for California Prop 65.

Note; Under decomposition conditions, toxic fumes and contaminated water is expectable. See **SECTION 10**.

SECTION 12: ECOLOGICAL CONSIDERATIONS

For transportation, storage and regular use, no toxicological effect known.

Cotton and viscose (Tencel) materials are biodegradable under aerobic conditions.

After usage; according to usage area should be stored under proper conditions or recycled properly (**SECTION 13**).

SECTION 13: DISPOSAL CONSIDERATIONS

As nonhazardous solid waste, nonwovens can be disposed of, depending on local legislation, through;

Recycling: Yes

Landfill: Yes

Incineration: Otherwise manage in a RCRA permitted waste management facility. Dispose of in accordance with local, state & federal relevant regulations.

SECTION 14: TRANSPORT INFORMATION

No specific request. Not regulated by DOT, IMDG, IMO, ADR, RID, IATA, ICAO and TDG.

SECTION 15: REGULATORY INFORMATION

Non of the ingredients known is classified/listed according to current Directive REACH-SVHC, 67/548/EEC and EU CLP Regulation No: 1272/2008 and CSA (by EU) or US regulations by; CERCLA (40 CFR 302.4), OSHA (29 CFR 1910.1200), SARA Title III (40 CFR 372), CAA, CWA, TSCA and State Right to Know Lists (US) is not applicable or available. In addition to those outlined in **SECTION 02**, this product contains no other hazardous chemicals according to California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

This product does not have FDA approval as a food additive either direct or indirect per 21 CFR. Therefore, it is not approved for use as articles or components of articles intended for repeated contact with food. This product has not been evaluated by USDA for use in packaging material in direct contact with meat or poultry food products prepared under federal inspection.

SECTION 16: OTHER INFORMATION

The above mentioned data are based on our best information and do not represent any characteristic guarantee. It is in the responsibility of the user of our products to observe the existing laws and regulations. The user has the responsibility to use the last revised issue.

Product type: **SPUNLACE****page: 4/4****Abbrev.:**

ACGIH	American Conference of Governmental Industrial Hygienists
ADR/RID	Agreement on Dangerous Goods by Road / Regulations concerning the Intl. Transport of Dangerous Goods by Rail
CAA	Clean Air Act Amendments of 1990
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CLP	(EU) Classification, Labelling and Packaging
CSA	(EU) Chemical Safety Assessment
CWA	Clean Water Act
DOT	Department of Transportation
EEC	The European Economic Community
EPA	Environmental Protection Agency
FDA	Food & Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Look WHMIS
IARC	International Agency for Research on Cancer
IATA	The International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods code
IMO	The International Maritime Organization
LOI	Loss On Ignition
NFPA	The National Fire Protection Association
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
RCRA	Resource Conservation and Recovery Act
REACH	(EU) Registration, Evaluation, Authorization and Restriction of Chemicals (EC No: 1907/2006 & 1272/2008)
SARA	Superfund Amendments and Reauthorization Act
SVHC	(REACH) - Candidate List of Substances of Very High Concern
TDG	Transportation of Dangerous Goods Act
TSCA	(The U.S.) Toxic Substances Control Act
TWA	Time Weighted Average
USDA	United States Department of Agriculture
WHMIS	Workplace Hazardous Materials Information System