

SDS TR reference: SDS 135

Issue date: 28.05.2021 Revision date: 03.05.2024 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### **1.1. Product identifier**

Product name

: DENSURF SM 220

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category Use of the substance/mixture : Industrial use

: The product is a silicone-free surface-active flow additive and color acceptance improver for aqueous systems based on emulsions and aqueous resins.

### 1.3. Details of the supplier of the safety data sheet

DENGE KİMYA VE TEKSTİL SAN. TİC. A.Ş. Velimeşe Organize Sanayi Bölgesi Mah. 259.Sok. No:4/1 Ergene TEKİRDAĞ TÜRKİYE T +90 (0282) 674 54 00 - F +90 (0282) 674 50 01 bozmen@dengekimya.com - www.densurf.com

1.4. Emergency telephone number

No additional information available

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

#### Not classified

Adverse physicochemical, human health and environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

No labelling applicable

### 2.3. Other hazards

Other hazards not contributing to the classification

No additional information available

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of Regulation (OG) 23.06.2017 - 30105



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SECTION 4: First aid measures 4.1. Description of first aid measures		
First-aid measures after inhalation	: If experiencing respiratory symptoms: Call a poison center or a doctor. Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest.	
First-aid measures after skin contact	<ul> <li>After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If skin irritation occurs: Get medical advice/attention.</li> </ul>	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Consult an ophtalmologist if irritation persists.	
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.	

# 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the subs	tance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Do not allow contact with air. Keep container tightly closed and away from heat, sparks and flame. Keep container closed when not in use.
Firefighting instructions	: In case of fire: stop leak if safe to do so. Cool laterally with water containers exposed to flames, even after the fire is extinguished. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: On exposure to high temperature, may decompose, releasing toxic gases.

6.1. Personal precautions, protective equipment and emergency procedures		
General measures	<ul> <li>Evacuate area. Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Stop leak if safe to do so. Absorb spillage to prevent material damage. Isolate from fire, if possible, without unnecessary risk. No open flames. No smoking.</li> </ul>	

**SECTION 6: Accidental release measures** 



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6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	<ul> <li>Evacuate unnecessary personnel. Stop leak if safe to do so. Use grounded electrical/mechanical equipment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.</li> </ul>

## 6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if liquid enters sewers or public waters.

For containment	: Consult an expert on waste disposal or treatment. Do not touch or walk on the spilled
	product. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Collect
	spillage. Using a clean shovel, put the material in a dry container and cover without compressing it. Contain any spills with dikes or absorbents to prevent migration and entry
	into sewers or streams.
Methods for cleaning up	: If the product is liquid. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). If the product is solid. Take up mechanically (sweeping,
	shovelling) and collect in suitable container for disposal.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Comply with applicable regulations. Take precautionary measures against static discharge.	
Storage conditions	: Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a closed container. Protect from moisture. Keep only in original container.	
Incompatible products	: Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.	
Incompatible materials	: For further information, refer to section 10 : "Stability and Reactivity".	
Storage area	: Store away from heat. Store in a well-ventilated place.	
Packaging materials	<ol> <li>Keep only in the original container in a cool, well-ventilated place away from combustible materials.</li> </ol>	
Storage class (LGK, TRGS 510)	: LGK 13 - Non-combustible solids	
7.3. Specific end use(s)		

### No additional information available



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# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	Measure concentrations regularly, and at the time of any change occuring in conditions likely to have consequences on workers exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure that there is a suitable ventilation system.
Personal protective equipment	: Gloves. Protective goggles. Wear a mask. Protective clothing.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s)	
Environmental exposure controls	: Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: yellowish
Odour	: Mixture contains one or more component(s) which have the following odour:
Odour threshold	: No data available
рН	: 6.5 ± 1.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

## 9.2. Other information

No additional information available



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# SECTION 10: Stability and reactivity

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## **10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

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

## **SECTION 11: Toxicological information**

11.1. Information on toxicological e	ffects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Not classified	
	pH: 6.5 ± 1.5	
Serious eye damage/irritation	: Not classified	
	pH: 6.5 ± 1.5	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
DENSURF SM 220		
Viscosity, kinematic	Not applicable	

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified



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# 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential **DENSURF SM 220** Bioaccumulative potential No additional information available 12.4. Mobility in soil **DENSURF SM 220** Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Ozone : Not classified Other adverse effects : No additional information available

SECTION 13: Disposal considerations 13.1. Waste treatment methods		
Waste treatment methods	: Assure that emissions are compliant with all applicable air pollution control regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Product/Packaging disposal recommendations Additional information	<ul><li>Avoid release to the environment.</li><li>Consult an expert on waste disposal or treatment. Do not re-use empty containers.</li></ul>	

SECTION 14: Transport Information					
n accordance with ADR / IMDG / IATA / ADN / RID					
IMDG	ΙΑΤΑ	ADN	RID		
			·		
g name					
Not applicable	Not applicable	Not applicable	Not applicable		
iption					
Not applicable	Not applicable	Not applicable	Not applicable		
lass(es)					
Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable		
	DG / IATA / ADN / RID IMDG g name Not applicable iption Not applicable class(es) Not applicable Not applicable	DG / IATA / ADN / RID IMDG IATA g name g name Not applicable Not applicable iption Not applicable Not applicable class(es) Not applicable Not applicable Not applicable Not applicable	IMDG       IATA       ADN         IMDG       IATA       ADN         g name		



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ADR	IMDG	ΙΑΤΑ	ADN	RID
4.5. Environmental haz	zards	· · · ·		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

14.6. Special precautions for user

**Overland transport** No data available

Transport by sea No data available

Air transport No data available

Inland waterway transport No data available

**Rail transport** No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information		
15.1. Safety, health and environment	al regulations/legislation specific for the substance or mixture	
15.1.1. National regulations		
Local regulations (Turkey)	<ul> <li>Regulation on Transportation of Dangerous Goods by Road published in the Official Journal numbered 28801 on October 24, 2013</li> <li>Personal Protective Equipment Regulation published in the Official Journal numbered 30761 on May 1, 2019</li> <li>Regulation on Use of Personal Protective Equipments in Workplaces published in the Official Journal numbered 28695 on July 2, 2013</li> <li>Occupational Health and Safety Regulation published in the Official Journal numbered 25311 on December 9, 2003</li> <li>Regulation on Test Methods that will be Applied to Determine the Physicochemical, Toxicological and Ecotoxicological Properties of Substances and Mixtures published in the Official Journal numbered 28848 on December 11, 2013</li> <li>Regulation on Health and Safety Precautions When Working with Chemical Substances published in the Official Journal numbered 28733 on August 12, 2013</li> <li>Regulation on Health and Safety Precautions When Working with Carcinogenic and Mutagenic Substances published in the Official Journal numbered 28733 on August 6, 2013 according to By-law on Registration, Evaluation, Authorization and Restriction of Chemicals (O.G: 23.06.2017 - 30105)</li> <li>Waste Management Regulation published in the Official Journal numbered 29314 on April 2, 2015</li> <li>Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.</li> </ul>	
This product doesn't contain any substances published in the Official Journal numbered 30	that is controlled or prohibited for use according to the Regulation on Ozone Depleting Substances 0031 on April 7, 2017.	



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Contains no substances with KKDIK Annex 17 restrictions

Substance(s) are not subject to Regulation on Persistent Organic Pollutants (O.G. 14.11.2018-30595)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Abbreviations and acronyms		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	



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Abbreviations and acronyms	
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: ECHA (European Chemicals Agency). Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Safety Data Sheet author's		
Name	BERFIN DILAN ÖZMEN	
Certificate number	KDU-A-0-0291	
Certificate valid until	05/03/2029	
Contact information	bozmen@dengekimya.com	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.