



according to Regulation (EU) 2015/830 Date of issue:12/1/2000 Revision date:6/1/2017

Version: 3.0

SECTION 1: Identification of the sub	stance/mixture and of the com	a an u lun dartaking	
1.1. Product identifier	stance/mixture and of the comp	bany/undertaking	
Product form	: Mixture		
Trade name	: ESPACER <sup>™</sup> 300Z		
Product code	: EL-21101(EU)		
1.2. Relevant identified uses of the subs	ance or mixture and uses advised aga	inst	
1.2.1. Relevant identified uses			
Main use category	: Professional use		
Industrial/Professional use spec	: For professional use only		
Function or use category	: Anti-static agents, Conductive agents		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety	lata sheet		
Quanting	Chause Danks Further Orthold		
Supplier	: Showa Denko Europe GmbH	0	
Address	: Konrad-Zuse-Platz 3, 81829 Munich,	Germany	
Tel. E-mail	+49-89-93 99 62-0		
	support@sde.de		
Manufacturer	: SHOWA DENKO K.K. Electronics Ma		
	13-9, Shiba Daimon 1-Chome, Minato	-ku, Tokyo 105-8518 J	apan
	Tel. +81-3-5470-3344		
1.4. Emergency telephone number			
Emergency number	: +44(0)1235 239 670		
SECTION 2: Horordo identification			
SECTION 2: Hazards identification 2.1. Classification of the substance or m	inturo.		
Classification according to Regulation (EC) N	5. 1272/2008 [CLP]		
Not classified			
2.2. Label elements			
	72/2008 [C] P1		
Labelling according to Regulation (EC) No. 12 Child registrat factoring			
Child-resistant fastening Tactile warning	<ul><li>Not applicable</li><li>Not applicable</li></ul>		
2.3. Other hazards	•• • • • •		
Other hazards not contributing to the classification	: May be corrosive to metals.		
SECTION 2: Composition/informatio	a on ingradianta		
SECTION 3: Composition/informatio	n on ingredients		
3.1. Substance Not applicable			
3.2. Mixture			
Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]
	(CAS No) 188754-53-2	< 1	Not classified
poly(isothianaphthenediyl-sulfonate)			

#### Safety Data Sheet

according to Regulation (EU) 2015/830

Benzenesulfonic acid, C10-16-alkyl derivatives	(CAS No) 68584-22-5 (EC No) 271-528-9	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Aquatic Chronic 2, H411
Water	(CAS No) 7732-18-5 (EC No) 231-791-2	> 98	Not classified

Full text of H-statements: see section 16

4.1.       Description of first aid measures         First-aid measures general       : Get medical advice/attention. If you feel unwell, IF exposed or concerned: Get medical advice/attention.         First-aid measures after inhalation       : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, set medical advice/attention.         First-aid measures after sixin contact       : Remove Victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, set measures after eye contact         First-aid measures after eye contact       : FIN EYSE: Rise couldback with water for several minutes. Remove contact lenses, if preser and says to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.         Eirst-aid measures after inhalation       : Trachea irritation.         Symptoms/effects after six incontact       : Skin irritation and erythema.         Symptoms/effects after six incontact       : Skin irritation and erythema.         Symptoms/effects after exist and special treatment needed       Irritation of the eye tissue.         Stable extinguishing media       : The product is not easily ignited. Chemical fire extinguisher. carbon dioxide (CO2), foam, hazy water, powdar.         Suitable extinguishing media       : None to our knowledge.         Stable extinguishing media       : None to our knowledge.         Stable extinguishing media       : Self-contained breathing apparatus. Complete protective cothing.         Staft fort	SECTION 4: First aid measures	
First-aid measures general       : Get medical advice/attention, fry ou feel unwell, IF exposed or concerned; Get medical advice/attention,         First-aid measures after inhalation       : Remover Take of Immediately all contaminated clothing. Rinse skin with water/shower.         First-aid measures after eye contact       : Remover Take of Immediately all contaminated clothing. Rinse skin with water/shower.         First-aid measures after eye contact       : Remover Take of Immediately all contaminated clothing. Rinse skin with water/shower.         First-aid measures after eye contact       : Rinse mouth. If the person is fully conscious, try to induce vomiting. Get medical advice/attention.         Symptoms/effects       : May cause slight temporary irritation.         Symptoms/effects after skin contact       : skin irritation. <td></td> <td>25</td>		25
unwell, seek medical advice.           First-aid measures after skin contact         : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.           First-aid measures after eye contact         : IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.           First-aid measures after ingestion         : Rinse mouth. If the person is fully conscious, try to induce voniting. Get medical advice/attention.           Symptoms/effects         : May cause slight temporary irritation.           Symptoms/effects         : May cause slight temporary irritation.           Symptoms/effects after inhalation         : Traches irritation of the eye tissue.           4.3.         Indication of any immediate medical attention and special treatment needed           Treat symptomalically.         : The product is not easily ignited. Chemical fire extinguisher. carbon dioxide (CO2), foam, hazy water, powder.           5.1.         Extinguishing media         : None to our knowledge.           5.2.         Special hazards arising from the substance or mkture         : Fight fire from safe distance and protected location.           Structe for fingityters         : Fight fire from safe distance and protected location.           Structure of ringityters         : Product is not easily apparatus. Complete protective clothing.           Structure of ringityters         : Provide sufficin	First-aid measures general	
First-aid measures after eye contact       : IF IN EYES: Rines cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.         First-aid measures after ingestion       : Rines mouth. If the person is fully conscious, try to induce vomiting. Get medical advice/attention.         4.2. Most important symptoms and effects, both acute and delayed       Symptoms/effects after inhalation       : Trachea irritation.         Symptoms/effects after inhalation       : Trachea irritation and erythema.       Symptoms/effects after inhalation       : Trachea irritation and erythema.         Symptoms/effects after inhalation       : Irritation of and erythema.       Symptoms/effects       Strachea irritation.         Symptoms/effects after inhalation       : Trachea irritation and erythema.       Symptoms/effects       Strachea irritation and erythema.         Symptoms/effects       : Irritation of any immediate medical attention and special treatment needed       Strachea irritation ary immediate medical attention and special treatment needed         Statuble extinguishing media       : None to our knowledge.       Statuble extinguishing media       : None to our knowledge.         Statuble extinguishing media       : Toxic fumes may be released.       Statuble extinguishing media       : Statuble extinguishing med	First-aid measures after inhalation	
and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.         First-aid measures after ingestion       : Rinse mouth. If the person is fully conscious, try to induce vomiting. Get medical advice/attention.         4.2. Most Important symptoms and effects, both acute and delayed	First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
advice/attention.       advice/attention.         4.2. Most important symptoms and effects, both acute and delayed         Symptoms/effects       May cause slight temporary irritation.         Symptoms/effects after skin contact       :         Symptoms/effects after skin contact       :         Symptoms/effects after skin contact       :         Symptoms/effects after symptoms/effects after symptoms/effects after symptoms/effects after symptomatically.         SECTION 5: Firefighting measures         Stable extinguishing media       :         Suitable extinguishing media       :         Stable extinguishing media       :         Suitable extinguishing media       :         None to our knowledge.       :         S.2.       Special hazards       :         Frieffulting inters       :         Fineffulting inters       :	First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Symptoms/effects after inhalation : Trachea irritation. Symptoms/effects after inhalation : Trachea irritation. Symptoms/effects after eye contact : Irritation and erythema. Symptoms/effects after eye contact : Irritation of the eye tissue. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECCTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Suitable extinguishing media : The product is not easily ignited. Chemical fire extinguisher. carbon dioxide (CO2), foam, hazy water, powder. Junsuitable extinguishing media : None to our knowledge. 5.2. Special hazards arising from the substance or mixture Treat arising from the substance or mixture Fire hazard : Toxic furmes may be released. Explosion hazard : Product is not explosive. 5.3. Advice for firefighters Firefighting instructions : Fight fire from safe distance and protected location. Protection during firefighting : Self-contained breathing apparatus. Complete protective clothing. SECTION 6: Acctidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Seneral measures : Provide sufficient air exchange and/or exhaust. 6.1.1. For non-emergency personnel Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Emergency procedures : Ventilate spillage area. 6.1.2. For emergency responders Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Emergency procedures : Stop release. 6.2. Environmental precautions Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Emergency procedures : Stop release. 6.2. Environmental precautions Prevent spreading over great surfaces (e.g. by damming or installing oil booms). 6.3. Methods and material for containment and cleaning up For containment : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and	First-aid measures after ingestion	
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Symptoms/effects after skin contact         : skin irritation and erythema.           Symptoms/effects after eye contact         : Irritation of the eye tissue.           43.         Indication of any immediate medical attention and special treatment needed           Treat symptomatically.           SECTION 5: Firefighting media           Suitable extinguishing media           Suitable extinguishing media           Suitable extinguishing media           Suitable extinguishing media           Statistic extinguishing media           Trex powder.           Jussitable extinguishing media           Statistic extinguishing med	Symptoms/effects	: May cause slight temporary irritation.
Symptoms/effects after eye contact : Irritation of the eye issue.	Symptoms/effects after inhalation	: Trachea irritation.
Symptoms/effects after eye contact : Irritation of the eye issue.	Symptoms/effects after skin contact	: skin irritation and ervthema.
Treat symptomatically.         SECTION 5: Firefighting measures         5.1. Extinguishing media         Suitable protective explosive.         Suitable protective explosive.         Suitable protective equipment         Protide suifficient air exchange and/or exhaust.	Symptoms/effects after eye contact	: Irritation of the eye tissue.
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SECTION 5: Firefighting measures         5.1. Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Structure         Jnsuitable extinguishing media         Structure         Suitable extinguishing media         Structure         Structure         Structure         Fire hazard         Structure         Fire hazard         Structure         Fire hazard         Structure         Structure         Fire hazard         Structure         Fire hazard         Structure         Structure <td></td> <td></td>		
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Protective equipment       : Wear suitable protective clothing, gloves and eye or face protection.         Emergency procedures       : Ventilate spillage area.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Wear suitable protective clothing, gloves and eye or face protection.         Emergency procedures       : Wear suitable protective clothing, gloves and eye or face protection.         Emergency procedures       : Stop release.         6.2. Environmental precautions         Prevent spreading over great surfaces (e.g. by damming or installing oil booms).         6.3. Methods and material for containment and cleaning up         For containment       : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and		
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6.1.2.       For emergency responders         Protective equipment       : Wear suitable protective clothing, gloves and eye or face protection.         Emergency procedures       : Stop release.         6.2.       Environmental precautions         Prevent spreading over great surfaces (e.g. by damming or installing oil booms).         6.3.       Methods and material for containment and cleaning up         For containment       : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and		: Wear suitable protective clothing, gloves and eye or face protection.
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Emergency procedures       : Stop release.         6.2.       Environmental precautions         Prevent spreading over great surfaces (e.g. by damming or installing oil booms).         6.3.       Methods and material for containment and cleaning up         For containment       : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and	6.1.2. For emergency responders	
<ul> <li>6.2. Environmental precautions</li> <li>Prevent spreading over great surfaces (e.g. by damming or installing oil booms).</li> <li>6.3. Methods and material for containment and cleaning up</li> <li>For containment</li> <li>In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and</li> </ul>	Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection.
Prevent spreading over great surfaces (e.g. by damming or installing oil booms). 6.3. Methods and material for containment and cleaning up For containment : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and	Emergency procedures	: Stop release.
6.3.       Methods and material for containment and cleaning up         For containment       : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and	3.2. Environmental precautions	
For containment : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and	Prevent spreading over great surfaces (e.g.	by damming or installing oil booms).
For containment : In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and	.3. Methods and material for conta	inment and cleaning up
	For containment	: In the case of a large amount leakage, fenced by a clod or cloth and prevent the flowing, and

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

Safety Data Sheet

according to Regulation (EU) 2015/830

<b>SECTION 7: Handling and storage</b>	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Wear suitable protective clothing, gloves and eye or face protection. After treating, wash hands and face well, and gargle.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclue	ding any incompatibilities
Technical measures	: No information available.
Storage conditions	: Keep only in original container.
Storage temperature	: 5 (2 - 8) °C ( 36F - 46F )
Storage area	: Keep container tightly closed in a cool place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Install the local exhaust ventilation in handling area. Safety shower. provide eye wash and label
	its location conspicuously.
Hand protection	: protective gloves
Eye protection	: Wear eye/face protection
Skin and body protection	: According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
<b>SECTION 9: Physical and chemical</b>	l properties
9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Black.
Odour	: Sulfur.
Odour threshold	: No data available
рН	: 5 (3 - 6)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 0°C
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 24 mm Hg (25°C)
Relative vapour density at 20 °C	: 0.6
Relative density	: 1.005 (1.001 - 1.009)
Solubility	: Water: Material highly soluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

#### Safety Data Sheet

according to Regulation (EU) 2015/830

<u> </u>				
SECT	ION 10: Stability and reactivity			
10.1.	Reactivity			
No data	available.			
10.2.	Chemical stability			
No addi	itional information available			
10.3.	Possibility of hazardous reactions			
No addi	tional information available			
10.4.	Conditions to avoid			
Overhe	Overheating. Light (daylight).			
10.5.	Incompatible materials			
No data	No data available.			
10.6.	Hazardous decomposition products			
No data	available.			
SECT	SECTION 11: Toxicological information			
11.1.	Information on toxicological effects			
Acute to	oxicity	: Not classified		

poly(isothianaphthenediyl-sulfonate) (188754-53-2)	
LD50 oral rat	> 2000 mg/kg (Showa Denko's experimental data 94/0473)
Benzenesulfonic acid, C10-16-alkyl derivativ	ves (68584-22-5)
LD50 oral rat	530 mg/kg (IUCLID)
LD50 dermal rat	530 mg/kg (IUCLID)
Skin corrosion/irritation	: The material caused no irritation in a primary skin-irritation test using rabbits (analogy with similar product)( Showa Denko's experimental data 94/0352, 94/0353, 94/0611); based on available data, the classification criteria are not met.
	pH: 5 (3 - 6)
Serious eye damage/irritation	: The material caused slight and transient irritation in a primary eye-irritation test using rabbits (analogy with similar product) (Showa Denko's experimental data 94/0428, 94/0474); based on available data, the classification criteria are not met.
	pH: 5 (3 - 6)
Respiratory or skin sensitisation	: Respiratory: not classified due to lack of data.
	No ingredients are classified for skin sensitisation; not classified due to lack of data.
Germ cell mutagenicity	: No ingredients are classified for mutagenic effects; not classified due to lack of data.
Carcinogenicity	: Not classified due to lack of data.
Reproductive toxicity	: Not classified due to lack of data.
Specific target organ toxicity (single exposure)	: Not classified due to lack of data.
Specific target organ toxicity (repeated exposure)	: Not classified due to lack of data.
Aspiration hazard	: Not classified due to lack of data.

#### **SECTION 12: Ecological information**

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Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LC50 fish 1	3 mg/l Rainbow trout (IUCLID)
EC50 Daphnia 1	2.9 mg/l Water flea (IUCLID)

#### 12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Benze	Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Log Po	ow	2 (at 23°C) (IUCLID)
12.4.	Mobility in soil	

No additional information available

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according to Regulation (EU) 2015/830		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		
	tene -	
SECTION 13: Disposal considerat	lions	
13.1. Waste treatment methods	Discourse of a set of the line set of a	
Waste treatment methods	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Dispose in a safe manner in accordance with local/national regulations.</li> </ul>	
Waste disposal recommendations Ecology - waste materials	: Assure disposal complies with applicable regulations.	
SECTION 14: Transport information	on	
In accordance with ADR / RID / IMDG / IATA	, / ADN	
14.1. UN number		
Not regulated for transport		
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
Proper Shipping Name (ADN)	: Not applicable	
Proper Shipping Name (RID)	: Not applicable	
14.3. Transport hazard class(es)		
Transport hazard class(es) (ADR)	: Not applicable	
IMDG		
Transport hazard class(es) (IMDG)	: Not applicable	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not applicable	
ADN		
Transport hazard class(es) (ADN)	: Not applicable	
RID	· Not applicable	
Transport hazard class(es) (RID)	: Not applicable	
14.4. Packing group		
Packing group (ADR)	: Not applicable	
Packing group (IMDG)	Not applicable	
Packing group (IATA)	: Not applicable	
Packing group (ADN)	: Not applicable	
Packing group (RID)	: Not applicable	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant Other information	: No	
	: No supplementary information available	

#### 14.6. Special precautions for user

- Overland transport

No data available

#### - Transport by sea

No data available

- Air transport

No data available

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#### - 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 environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

VwVwS Annex reference	:	Water hazard class (WGK) 2, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	is listed
SZW-lijst van mutagene stoffen	:	is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are listed
Denmark		
Recommendations Danish Regulation	:	Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

# SECTION 16: Other information Data sources : This information is provided in the present safety data sheet.

Other information

: None.

#### Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H411	Toxic to aquatic life with long lasting effects

#### SDK SDS EU (REACH Annex II) (ver.20160929)

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