

Safety Data Sheet

2025DSI, 20cc/30cc MUSASHI

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1. Identification of the substance/preparation and of the company/undertaking

Product name

2025DSI, 20cc/30cc MUSASHI

Company information, address, tel No.:

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2. Hazards identification

Product hazard classification:

Hazard Class Skin corrosion/irritation

environment

Hazard Category

Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1
Germ cell mutagenicity	Category 2
Acute hazards to the aquatic	Category 3
environment	
Chronic hazards to the aquatic	Category 3

GHS label content: Hazard pictogram:

Warning

Signal word:

Hazard statement:	 H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statement	P201 Obtain special instructions before use.
(Prevention):	 P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement (Response):	 P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Precautionary Statement (Storage):	P405 Store locked up.
Precautionary Statement (Disposal):	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

3. Composition / information on ingredients

Pure substance/ Mixture:

Substance

Traditional Chinese name /English name for the hazardous	CAS-No.	Percentage/Conc.
compositions:		_
1,1,1-三甲基-N-(三甲基矽烷基)矽烷胺、矽石的水解產物	68909-20-6	30 - 60 %
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis		
products with silica		
雙馬來酰亞胺樹脂	Trade Secret	10 - 30 %
Bismaleimide monomer		
2,2-二甲基-1,3-丙二基雙甲基丙烯酸酯	1985-51-9	5 - 10 %
2,2-dimethyl-1,3-propanediyl bismethacrylate		
環氧樹脂	Trade Secret	5 - 10 %
Epoxy resin		
三羥甲基丙烷四丙烯酸酯	94108-97-1	1 - 5 %
2-[[2,2-bis[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-		
propanediyl diacrylate		
2,3-環氧丙基丙基三甲氧基矽烷	2530-83-8	0.1 - 1 %
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane		

First aid measure for different exposure ways:				
Inhalation:	Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.			
Skin contact:	Rinse with running water and soap. Obtain medical attention if irritation persists.			
Eye contact:	Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.			
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.			

5. Fire fighting measures				
Proper extinguishing agent:	Water spray (fog), foam, dry chemical or carbon dioxide.			
Decomposition products in case of fire:	Oxides of carbon. Toxic and irritating vapors.			
Special protect devices of fire- fighting team:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.			
	6. Accidental release measures			
Personal precautions:	Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation. Remove sources of ignition.			
Environmental precautions:	Do not empty into drains / surface water / ground water.			
Clean method:	For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.			

7. Handling and storage			
Safety handling:	Avoid skin and eye contact. See advice in section 8		
Storage:	Ensure good ventilation/extraction. Keep container tightly sealed. Keep frozen.		

8. Exposure controls / personal protection

Engineering control:	Ensure good	sure good ventilation/extraction.			
Ingredient [Regulated substance]	Value type	ррт	mg/m ³	Form of exposure	Remarks
Personal protect equipment: Respiratory protection:	Ensure adequ An approved the product is	uate ventila mask or re s used in a j	tion. spirator fitted wi poorly ventilated	th an organic var area	our cartridge should be worn if
Hand protection:	Chemical-res Suitable matu index 2, corre nitrile rubber Suitable matu correspondin nitrile rubber This informa manufacturer practice the v shorter than t many influer gloves should	Filter type: A Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the protect the many influencing factors (e.g. temperature).			
Eye protection: Skin and body protection:	Safety glasse of splashing. Wear suitable	es with side	shields or chemic	cal safety goggles	should be worn if there is a risk
Hygiene control:	Avoid contact off any conta Wash thorou Keep absolut Do not eat, d	Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care. Wash thoroughly after handling. Keep absolute tidiness at the working place. Do not eat, drink, smoke or take snuff while working.			

9. Physical and chemical properties

Appearance:	Paste
	Red
Odor:	Slight
Odor threshold:	Not available.
pH:	Not available.
Melting point:	Not available.
Boiling point/range:	Polymerization.
Density:	Not available.
Vapor pressure:	Not available.
Vapor density:	Not available.
Flammability:	non flammable
Flash point:	> 93 °CMeasure method:
Explosion limit:	Not available.
Auto-ignition temperature:	Not available.
Solubility in water	Not available.
Octanol / water distribution	Not applicable
coefficient:	
Evaporation rate:	Not available.

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10. Stability and reactivity

Stability:	Stable under recommended storage conditions.
Incompatible materials:	Reacts with alcohols and amines. Reacts with oxidants, acids and lyes Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Condition to avoid:	No decomposition if stored and applied as directed.
Decomposed material:	Hydrocarbons carbon oxides. nitrogen oxides Rapid polymerisation may generate excessive heat and pressure.
Hazardous polymerization:	None under normal processing.

11. Toxicological information

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time	_	
Silanamine, 1,1,1-	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
trimethyl-N-						Oral Toxicity)
(trimethylsilyl)-,						
hydrolysis products with						
silica						
68909-20-6						
2-[[2,2-bis[[(1-	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
oxoallyl)oxy]methyl]buto	LD50	> 2,000 mg/kg			rat	Oral Toxicity)
xy]methyl]-2-ethyl-1,3-			dermal			not specified
propanediyl diacrylate						
94108-97-1						
[3-(2,3-	LD50	8,025 mg/kg	oral		rat	OECD Guideline 401 (Acute
Epoxypropoxy)propyl]tri	LC50	> 5.3 mg/l	inhalation	4 h	rat	Oral Toxicity)
methoxysilane	LD50	4,250 mg/kg	dermal		rabbit	OECD Guideline 403 (Acute
2530-83-8						Inhalation Toxicity)
						OECD Guideline 402 (Acute
						Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Silanamine, 1,1,1- trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 68909-20-6	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time	-	
Silanamine, 1,1,1- trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 68909-20-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]buto xy]methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	Category II		rabbit	EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	highly irritating	20 s	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Silanamine, 1,1,1- trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 68909-20-6	not sensitising	Guinea pig maximisat ion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Silanamine, 1,1,1- trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 68909-20-6	negative	bacterial reverse mutation assay (e.g Ames test)			not specified
Epoxy resin Proprietary	positive with metabolic activation	bacterial reverse mutation assay (e.g Ames test)			not specified
Epoxy resin Proprietary	positive	intraperitoneal			not specified
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	A mutagenic potential can not be excluded.	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	A mutagenic potential can not be excluded.			mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	NOAEL=500 mg/kg	oral: unspecified	28 d	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	NOAEL=0.225 mg/kg	inhalation	14 d	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

12. Ecological information

Ecological toxic information:

Do not empty into drains / surface water / ground water. May cause long-term adverse effects in the aquatic environment.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 68900-20.6	LC50	> 1,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica 68909-20-6	EC50	> 146 mg/l	Daphnia	24 h	Daphnia magna	not specified
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate	LC50	1.2 mg/l	Fish	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-[[2,2-bis][(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	EC50	> 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-[[2,2-bis][(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	EC50	> 12 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-[[2,2-bis][(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	NOEC	< 0.35 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane	LC50	55 mg/l	Fish	96 h	Cyprinus carpio	EU Method C.1 (Acute Toxicity for Fish)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	EC50	324 mg/l	Daphnia	48 h	Simocephalus vetulus	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	EC50	119 mg/l	Algae	7 d	Anabaena flos-aquae	OECD Guideline 201 (Alga, Growth Inhibition Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane	EC10	40 mg/l	Algae	7 d	Anabaena flos-aquae	OECD Guideline 201 (Alga, Growth Inhibition Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	NOEC	> 100 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1		aerobic	4 - 14 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	not readily biodegradable.	aerobic	37 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-[[2,2-bis[[(1- oxoallyl)oxy]methyl]butoxy] methyl]-2-ethyl-1,3- propanediyl diacrylate 94108-97-1	4.14				30 °C	OECD Guideline 117 (Partition Coefficient (n- octanol / water), HPLC Method)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	0.5				20 °C	QSAR (Quantitative Structure Activity Relationship)

13. Disposal considerations

Waste disposal of product:

Waste disposal with the approval of the responsible local authority.

14. Transport information

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

15. Regulatory information

Labor Safety and Health Act

Regulation of Labeling and Hazard Communication of Dangerous and Harmful Substances

Standards on Workplace Atmosphere of Dangerous and Hazardous Materials

Regulations Governing Road Traffic Safety

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

16. Other information

Reference information:	This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.
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