Safety Data Sheet

Sista M 525

SDS No. : 218904
V001.4
Date of issue: 15.07.2021

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

Product name: Sista M 525

Intended use: Foam, 1-component with propellant gas

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard Class	Hazard Category	Route of Exposure	Target organ
Flammable aerosols	Category 1		
Flammable liquids	Category 2		
Acute toxicity	Category 2	Inhalation	
Skin irritation	Category 2		
Serious eye irritation	Category 2A		
Respiratory sensitizer	Category 1		
Skin sensitizer	Category 1		
Carcinogenicity	Category 2		
Target Organ Systemic Toxicant - Single exposure	Category 3		respiratory tract irritation
			Central nervous system
Target Organ Systemic Toxicant - Repeated exposure	Category 1		
Acute toxicity	Category 4		Inhalation
Acute hazards to the aquatic environment	Category 3		

Hazard pictogram:

Signal word: Danger

Hazard statement(s):

H222 Extremely flammable aerosol.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P201 Obtain special instructions before use.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P285 In case of inadequate ventilation wear respiratory protection.

Response:

P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
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 Take off contaminated clothing.

Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal:

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Hazard pictogram:

Signal word:

Danger

Hazard statement(s):

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H402 Harmful to aquatic life.

Precautionary Statement(s):

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection, and face protection.
P281 Use personal protective equipment as required.
P284 [In case of inadequate ventilation] wear respiratory protection.

Response:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
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 Take off contaminated clothing.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:
Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	10- 30 %
Phosphorous oxychloride, reaction products with propylene oxide	1244733-77-4	10- 30 %
dimethyl ether	115-10-6	< 10 %
butane	106-97-8	< 3 %
non hazardous ingredients~		30- 60 %

Section 4. First aid measures

Ingestion:
Do not induce vomiting.
Have victim rinse mouth thoroughly with water.
Seek medical advice.

Skin:
Remove contaminated clothing and footwear.
Wash with soap and water.
Seek medical advice.
Wash clothing before reuse.

Eyes:
Immediately flush eyes with water for at least 15 minutes, while holding eyelids open.
Seek medical attention at once.

Inhalation:
Move to fresh air in case of accidental inhalation of vapours.
Seek medical advice.

First Aid facilities:
Eye wash and safety shower
Normal washroom facilities

Medical attention and special treatment:
Treat symptomatically and supportively.

Section 5. Fire fighting measures

Suitable extinguishing media:
Water spray or fog.
Carbon dioxide.
Dry chemical.

Improper extinguishing media:
High pressure waterjet

Decomposition products in case of fire:
Thermal decomposition can lead to release of irritating gases and vapors.
carbon monoxide
Carbon dioxide.
Oxides of nitrogen.

Particular danger in case of fire:
WARNING FLAMMABLE!
Contents under pressure.
Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
In case of fire, keep containers cool with water spray.

Special protective equipment for fire-fighters:
Use water spray to keep fire exposed containers cool and disperse vapors.
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional fire fighting advice:
In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:
Keep away from sources of ignition.

Avoid contact with skin and eyes.
Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.
Wear protective equipment.

Environmental precautions: Do not allow to enter in surface / ground water.

Clean-up methods: Remove the absorbed material, and place in an appropriate chemical waste container for disposal.
Ventilate area.

Section 7. Handling and storage

Precautions for safe handling: Avoid breathing vapors or mists of this product.
Avoid contact with eyes, skin and clothing.
Keep away from heat, spark and flame.
Vapors will accumulate readily and may ignite explosively.
Use only in well-ventilated areas.
Wear protective equipment.

Conditions for safe storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
ISOCYANATES, ALL (AS-NCO) 9016-87-9			0.02				
ISOCYANATES, ALL (AS-NCO) 9016-87-9							0.07
DIMETHYL ETHER 115-10-6						500	950
DIMETHYL ETHER 115-10-6		400	760				
Butane 106-97-8		800	1,900				
ISOCYANATES, ALL (AS-NCO) 9016-87-9			0.02				
ISOCYANATES, ALL (AS-NCO) 9016-87-9							0.07
DIMETHYL ETHER 115-10-6						500	950
DIMETHYL ETHER 115-10-6		400	760				
Butane 106-97-8		800	1,900				

Engineering controls:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Eye protection:	Safety goggles or safety glasses with side shields.
Skin protection:	Chemical resistant, impermeable gloves. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced. Wear suitable protective clothing.
Respiratory protection:	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance:	beige liquid
Odor:	slightly, of ether
Flash point:	-104 °C (-155.2 °F)
Lower explosive limit:	0.4 %(V)
Upper explosive limit:	32 %(V)
Density:	1 g/cm3
Solubility in water:	Insoluble (20 °C)
VOC content (2004/42/EC)	21.1 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Keep away from heat, spark and flame. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Humidity
Incompatible materials:	Reaction with water, formation of CO2 Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide carbon dioxide Oxides of nitrogen.

Section 11. Toxicological information

Health Effects:

Ingestion: Not expected under normal conditions of use.
Harmful if swallowed.

Skin: Irritating to skin.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.
May cause skin sensitization.

Eyes: Causes serious eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation: Harmful by inhalation.
This product is irritating to the respiratory system.
Inhalation of product mist may cause irritation of the nose, throat, and respiratory tract.
May cause allergic respiratory reaction.

Carcinogenicity: Category 2 (Carcinogen), Suspected of causing cancer.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD50 LD50	> 10,000 mg/kg > 9,400 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LD50 LC50 LD50	632 mg/kg > 7 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	not specified OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
dimethyl ether 115-10-6	LC50	164000 ppm	inhalation	4 h	rat	not specified
butane 106-97-8	LC50	274200 ppm	inhalation	4 h	rat	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	sensitising	Skin sensitisation	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
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
dimethyl ether 115-10-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
butane 106-97-8	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
butane 106-97-8	negative negative	inhalation: gas		Drosophila melanogaster rat	not specified 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
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	NOAEL=0.0002 mg/l	inhalation: aerosol	2 y6 h per d, 5 d per week	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
dimethyl ether 115-10-6	NOAEL=> 10000 ppm	inhalation	4 week6 hours/day, 5 days/week	rat	not specified
butane 106-97-8		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LC50	> 1,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 1,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 1,640 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 100 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LC50	56.2 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	other guideline:
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC50	131 mg/l	Daphnia	48 h	Daphnia magna	not specified
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC50	82 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	NOEC	13 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC 50	784 mg/l	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
dimethyl ether 115-10-6	LC50	> 4,000 mg/l	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
dimethyl ether 115-10-6	EC50	> 4,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dimethyl ether 115-10-6	EC50	> 1,000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
dimethyl ether 115-10-6	EC10	> 1,600 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
butane 106-97-8	LC50	27.98 mg/l	Fish	96 h		not specified
butane 106-97-8	EC50	14.22 mg/l	Daphnia	48 h		not specified
butane 106-97-8	EC50	7.71 mg/l	Algae	96 h		not specified

Persistence and degradability:

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

Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	not inherently biodegradable	aerobic	0 %	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	not readily biodegradable.	not specified	0 %	OECD 301 A - F
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	not readily biodegradable.	aerobic	14 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
dimethyl ether 115-10-6	not readily biodegradable.	aerobic	5 %	EU Method C.4-A (Determination of the "Ready" Biodegradability Dissolved Organic Carbon (DOC) Die-Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9		200		Cyprinus carpio		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4		0.8 - < 14	42 d	Cyprinus carpio		OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	2.68				30 °C	EU Method A.8 (Partition Coefficient)
dimethyl ether 115-10-6	0.07				25 °C	QSAR (Quantitative Structure Activity Relationship)

Section 13. Disposal considerations

Waste disposal of product: Dispose of according to regulations.
Contribution of this product to waste is very insignificant in comparison to article in which it is used

Disposal for uncleaned package: Completely empty pressurized gas containers (including propellant gas).
Disposal must be made according to official regulations.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.: 1950
Proper shipping name: AEROSOLS
Class or division: 2.1
Packing group:
Emergency information: Refer to the Australian Emergency Response Guide Book

Marine transport IMDG:

UN no.: 1950
Proper shipping name: AEROSOLS
Class or division: 2.1
Packing group:

EmS:	F-D ,S-U
Seawater pollutant:	-

Air transport IATA:

UN no.:	1950
Proper shipping name:	Aerosols, flammable
Class or division:	2.1
Packing group:	
Packing instructions (passenger)	203
Packing instructions (cargo)	203

`Section 15. Regulatory information

SUSMP Poisons Schedule None

Section 16. Other information

Abbreviations/acronyms:

ADGC - Australian Dangerous Goods Code
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
STEL - Short term exposure limit
TWA - Time weighted average
AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1-16

Date of previous issue: 26.04.2021

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.
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