Safety Data Sheet

OSIS + Freeze Strong hold Hair Spray

SDS No. : 734588
V001.0
Date of issue: 13.02.2025

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

Product name: OSIS + Freeze Strong hold Hair Spray

Intended use: Hair Styling

Company name:
Henkel Australia Pty. Ltd.
135-141 Canterbury Road
AUS-3137 Kilsyth, Victoria
Phone: 03 9724 6444

Emergency telephone number Poison Center (24/7): 131126

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**
Aerosol	Category 1

Hazard pictogram:



Signal word: Danger

Hazard statement(s):
H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.

Precautionary Statement(s):

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

Storage: P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

Type of preparation: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
dimethyl ether	115-10-6	30- < 60 %
Ethanol denatured	64-17-5	30- < 50 %

Section 4. First aid measures

Ingestion: Rinse mouth with water, (only if the person is conscious).
Do not induce vomiting, seek medical advice immediately.

Skin: Rinse with water. Take off all clothing contaminated by the product.

Eyes: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Inhalation: Move to fresh air. In case of breathing difficulties seek immediate medical advise.

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

Medical attention and special treatment: Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires.

Improper extinguishing media:

None known

Decomposition products in case of fire: Carbon dioxide
nitrogen oxides

Special protective equipment for fire-fighters:

Use personal protective equipment and self-contained breathing apparatus.

Additional fire fighting advice:

The product intensifies fire
In case of fire, keep containers cool with water spray.
Closed containers can explode due to buildup of pressure when exposed to high temperatures.

Section 6. Accidental release measures

Personal precautions: If large amounts are released contact the fire service.
Keep away from sources of ignition and naked flames.
Avoid contact with skin and eyes.
Danger of slipping on spilled product.

Ensure adequate ventilation.

Environmental precautions: Do not empty into drains / surface water / ground water / soil.

Clean-up methods: Remove mechanically. Rinse away residue with plenty of water.

Section 7. Handling and storage

Precautions for safe handling: Do not open by force or throw into fire even after use.
Take measures to prevent the build-up of electrostatic charges.
Do not spray onto flame or red-hot objects.
Keep away from sources of ignition - no smoking.

Conditions for safe storage: Store in original containers in a cool dry area.
Protect from direct sunlight and temperatures above 50°C. The storage regulations for aerosols apply.
Ensure that storage and workrooms are adequately ventilated.

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)
DIMETHYL ETHER 115-10-6						500	950
DIMETHYL ETHER 115-10-6		400	760				
ETHYL ALCOHOL 64-17-5		1,000	1,880				

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Wear tight fitting goggles.

Skin protection: Protective clothing against chemicals. Observe manufacturer's instructions.
Suitable protective gloves.

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.

General protection measures: The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

Section9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	aerosol clear colourless
Odor	floral, musky, Powdery
Physical state	aerosol
Melting point	Not applicable, Product is an Aerosol
Initial boiling point	Not applicable, Product is an Aerosol
Flammability	Not applicable, Product is an Aerosol
Explosive limits	Not applicable, Product is an Aerosol
Flash point	Not applicable, Product is an Aerosol
Auto-ignition temperature	Not applicable, Product is an Aerosol
Decomposition temperature	Mixture is not self-reactive and does not decompose or explode when used as intended
pH	Currently under determination
Viscosity (kinematic)	Not applicable, Product is an Aerosol
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Soluble
Partition coefficient: n-octanol/water	Not applicable, Product is an Aerosol
Vapour pressure	Not applicable, Product is an Aerosol
Density ()	0.753 g/cm3 Density - calculated::245200
Relative vapour density:	Not applicable, Product is an Aerosol
Particle characteristics	Not applicable, Product is an Aerosol

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Container pressure (20 °C (68 °F))	3.7 - 4.1 bar
Container pressure (50 °C (122 °F))	7.3 - 8 bar

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid naked flames, sparking and sources of ignition.
Keep away from heat and direct sunlight.
Do not open by force or throw into fire even after use.

Incompatible materials: None if used for intended purpose.

Hazardous decomposition products: No decomposition if used according to specifications.

Section 11. Toxicological information

Health Effects:
Ingestion: Not an anticipated route of exposure.
Skin: No adverse effects anticipated from normal use.
Eyes: No adverse effects anticipated from normal use.
Inhalation: No adverse effects anticipated from normal use.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
dimethyl ether 115-10-6	LC50	164000 ppm	inhalation	4 h	rat	not specified
Ethanol denatured 64-17-5	LD50 LC50 LD50	10,470 mg/kg 124.7 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethanol denatured 64-17-5	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethanol denatured 64-17-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
dimethyl ether 115-10-6	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
dimethyl ether 115-10-6	negative	inhalation: gas		Drosophila melanogaster	equivalent or similar to OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Dros. melanog.)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
dimethyl ether 115-10-6	NOAEL=47.106 mg/l2.5 %	inhalation: gas	2 y6 h/d; 5 d/w	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)

Section 12. Ecological information

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

Ecotoxicity:

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
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)
Ethanol denatured 64-17-5	LC50	> 12,000 - 16,000 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethanol denatured 64-17-5	EC50	5,012 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
Ethanol denatured 64-17-5	EC50	> 100 mg/l	Algae	24 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethanol denatured 64-17-5	IC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
dimethyl ether 115-10-6	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
Ethanol denatured 64-17-5	readily biodegradable	aerobic	80 - 85 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
dimethyl ether 115-10-6	0.07				25 °C	QSAR (Quantitative Structure Activity Relationship)

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: Only completely empty containers are to be disposed of as recoverable materials.

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 Telephone for Chemical Accidents:	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
SUSMP - Standard for the Uniform Medicines of Medicines and Poisons
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme

Reason for issue: This Safety Data Sheet contains changes from the previous version in Section(s): involved chapters: 1 - 16

Disclaimer:

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