



Safety Data Sheet

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Dynamo Professional Sensitive Laundry Liquid

SDS No. : 675411

V001.0

Date of issue: 04.03.2025

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

Product name: Dynamo Professional Sensitive Laundry Liquid

Intended use: heavy duty detergent

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:

<u>Hazard Class</u>	<u>Hazard Category</u>
Serious eye irritation	Category 2
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 2

Hazard pictogram:



Signal word: Warning

Hazard statement(s):	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H401 Toxic to aquatic life.
Precautionary Statement(s):	
Prevention:	P261 Avoid breathing mist/vapours. 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.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not 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
Alcohols, C12-18, 7EO	68213-23-0	3- < 10 %
Alcohols, C12-14, sulfates, sodium salt, 2EO	68891-38-3	3- < 5 %
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	3- < 10 %
Sodium metaborate, anhydrous	7775-19-1	< 3 %
2-methylisothiazol-3(2H)-one	2682-20-4	0.0015- < 0.1 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting, seek medical advice immediately. Rinse mouth with water, (only if the person is conscious).
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 advice.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
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. The product itself does not burn.
Improper extinguishing media:	None
Decomposition products in case of fire:	Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.
Special protective equipment for fire-fighters:	Use personal protective equipment and self-contained breathing apparatus.

Section 6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Ensure adequate ventilation. Danger of slipping on spilled product. If large amounts are released contact the fire service.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Remove mechanically. Rinse away residue with plenty of water.

Section 7. Handling and storage

Precautions for safe handling:	No special measures required if used properly.
Conditions for safe storage:	Store dry at between +5 and +40°C. Consider national regulations.

Section 8. Exposure controls / personal protection

National exposure standards:

Eye protection:	Wear tight fitting goggles.
Skin protection:	Protective clothing against chemicals. Observe manufacturer's instructions. Suitable protective gloves.
Respiratory protection:	Not needed.
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.

Section 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	liquid clear light yellow
Odor	odourless
Physical state	liquid
Melting point	Currently under determination
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	100 °C (212 °F); ASTM D 6450/DIN EN ISO 3679 D::00668700
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH (20 °C (68 °F); Conc.: 100 % product)	8.2 - 8.6 pH/aqueous solutions, dispersions/pH meter::97001401
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic (; Instrument: RV; 20 °C (68 °F))	300 - 700 mPa.s Viscosity/Brookfield::97001501
Solubility (qualitative)	soluble in water
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density ()	1.02 - 1.04 g/cm3 Density/fluids/oscillation method::97003901
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

9.2. Other information

Other information not applicable for this product

Section 10. Stability and reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	No decomposition if used according to specifications.
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:**

No adverse effects anticipated from normal use.

Skin:

No adverse effects anticipated from normal use.

Eyes:

Causes serious eye irritation.

Inhalation:

Not an anticipated route of exposure.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Alcohols, C12-18, 7EO 68213-23-0	LD50	1,700 mg/kg	oral		rat	not specified
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	LD50 LD50	2,870 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts 68081-81-2	LD50 LD50	1,080 mg/kg > 2,000 mg/kg	oral dermal		rat rat	not specified not specified
Sodium metaborate, anhydrous 7775-19-1	LD50 LC50 LD50	2,330 mg/kg > 2.04 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	not specified OECD Guideline 403 (Acute Inhalation Toxicity) not specified
2-methylisothiazol-3(2H)- one 2682-20-4	LD50 LC50 LD50	120 mg/kg 0.11 mg/l 242 mg/kg	oral inhalation dermal	4 h	rat rat rat	EPA OPPTS 870.1100 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-18, 7EO 68213-23-0	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts 68081-81-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-methylisothiazol-3(2H)- one 2682-20-4	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-18, 7EO 68213-23-0	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts 68081-81-2	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sodium metaborate, anhydrous 7775-19-1	irritating		human	Weight of evidence

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-methylisothiazol-3(2H)- one 2682-20-4	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
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	negative negative	bacterial reverse mutation assay (e.g. Ames test) mammalian cell gene mutation assay	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
2-methylisothiazol-3(2H)- one 2682-20-4	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)
2-methylisothiazol-3(2H)- one 2682-20-4	negative negative	oral: gavage oral: gavage		mouse rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	NOAEL=225 mg/kg	oral: gavage	90 days once daily, 5 times a week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2-methylisothiazol-3(2H)- one 2682-20-4	NOAEL=60 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information**General ecological information:**

Do not empty into drains / surface water / ground water.

Ecotoxicity:

H401 Toxic to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Alcohols, C12-18, 7EO 68213-23-0	LC50	1.2 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Alcohols, C12-18, 7EO 68213-23-0	NOEC	0.32 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) not specified
Alcohols, C12-18, 7EO 68213-23-0	EC50	3 mg/l	Daphnia	24 h	Daphnia magna	DIN 38412-09
Alcohols, C12-18, 7EO 68213-23-0	EC50	3.1 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	not specified
Alcohols, C12-18, 7EO 68213-23-0	EC0	10,000 mg/l	Bacteria	16 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	LC50	7.1 mg/l	Fish	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	EC50	7.2 mg/l	Daphnia	48 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	EC10	4.4 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	EC0	360 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test) not specified
Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2	LC50	5.9 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2	NOEC	0.23 mg/l	Fish	72 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	not specified
Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2	EC50	4.4 mg/l	Daphnia	48 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	other guideline:
Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2	NOEC	2.4 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	other guideline:
Benzenesulfonic acid, mono- C10-16-alkyl derivs., sodium salts 68081-81-2	ErC50	127.9 mg/l	Algae	72 h	Pimephales promelas	other guideline:
Sodium metaborate, anhydrous 7775-19-1	LC50	455 mg/l	Fish	96 h	Danio rerio (reported as Brachydanio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Sodium metaborate, anhydrous 7775-19-1	NOEC	36.6 mg/l	Fish	34 d	Ceriodaphnia dubia	other guideline:
Sodium metaborate, anhydrous 7775-19-1	EC50	520 mg/l	Daphnia	48 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium metaborate, anhydrous 7775-19-1	EC50	299.6 mg/l	Algae	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium metaborate, anhydrous 7775-19-1	EC10	200.12 mg/l	Algae	72 h	Oncorhynchus mykiss	OECD Guideline
2-methylisothiazol-3(2H)-one	LC50	4.77 mg/l	Fish	96 h		

2682-20-4 2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0.93 mg/l	Daphnia	48 h	Daphnia magna	203 (Fish, Acute Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-methylisothiazol-3(2H)-one 2682-20-4	NOEC	0.03 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0.22 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC 50	41 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
Alcohols, C12-18, 7EO 68213-23-0	readily biodegradable	aerobic	79 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	readily biodegradable	aerobic	77 - 79 %	EU Method C.4-E (Determination of the "Ready" Biodegradability: Closed Bottle Test)
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts 68081-81-2	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-methylisothiazol-3(2H)-one 2682-20-4	inherently biodegradable	aerobic	97 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-methylisothiazol-3(2H)-one 2682-20-4	readily biodegradable	aerobic	> 70 %	OECD Guideline 309 (Aerobic Mineralisation in Surface Water Simulation Biodegradation Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	0.3				23 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
Sodium metaborate, anhydrous 7775-19-1	-1.09				22 °C	EU Method A.8 (Partition Coefficient)
2-methylisothiazol-3(2H)-one 2682-20-4	-0.5					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

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: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

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
RID: International Rule for Transport of Dangerous Substances by Railway
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:

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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