Safety Data Sheet
according to WHS Regulations

Printing date 07.11.2026 Version number 12 Revision: 07.11.2026

* 1 Identification

· **Product identifier**

· **Trade name: Derval Protect**

· **Article number:** 2014
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture**
Cleaning power enhancer for more efficient stain removal on synthetic and blended technical fabrics For effective care at low alkalinity at temperatures of between 40 -60° C.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
· **Manufacturer**
Chemische Fabrik Kreussler & Co. GmbH
Rheingaustraße 87-93, D-65203 Wiesbaden
Tel. +49 (0) 611 9271-0
· **Supplier**
Spencer Systems
2/142 Riverstone Parade
Riverstone NSW 2765
Australia

· **Further information obtainable from:**
Spencer Systems
Daniel Hays
2/142 Riverstone Pde
Riverstone, NSW, 2765
Australia
· **Emergency telephone number:**
+61 (0) 2 9679 1244 (9am – 5pm AEDT)
Poisons information centre – 13 11 26 from anywhere in Australia

2 Hazard(s) Identification

· **Classification of the substance or mixture**

Eye Dam. 1	H318 Causes serious eye damage.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**



GHS05

· **Signal word** Danger
· **Hazard statements**
Causes serious eye damage.
Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
Avoid release to the environment.
Wear protective gloves / eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
· **Other hazards**
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

(Contd. on page 2)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 1)

· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
157627-86-6	Alcohols C13-C15 branched and linear,ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 3, H412	30-50%
160875-66-1	Poly(oxy-1,2-ethandiyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy Serious eye damage/irritation – Category 2A, H319	15-30%
64366-70-7	2-Ethyl Hexanol EO-PO Serious eye damage/irritation – Category 2A, H319	5-15%
67-63-0	propan-2-ol Flam. Liq. 2, H225; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336	1-5%
112-34-5	2-(2-butoxyethoxy)ethanol Serious eye damage/irritation – Category 2A, H319	1-5%

· **Ingredients according to detergent regulation EC 648/2004**	
non-ionic surfactants	≥30%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Call for a doctor immediately.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Protective equipment:** Use normal protective clothing.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
· **Reference to other sections**
No dangerous substances are released.

(Contd. on page 3)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 2)

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

· **Handling:**
· **Precautions for safe handling**
No special measures required.
No special precautions are necessary if used correctly.
· **Information about fire - and explosion protection:** No special measures required.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
None.
Store under lock and key and with access restricted to technical experts or their assistants only.
· **Storage class:** 10
· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**	
67-63-0 propan-2-ol (1-5%)	
WES	Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm

· **DNELs**		
67-63-0 propan-2-ol		
Oral	long term/systemic effects	26 mg/kg (general public)
Dermal	long term/systemic effects	319 mg/kg/Day (general public)
		888 mg/kg/Day (Workers)
Inhalative	long term/systemic effects	89 mg/m³ (general public)
		500 mg/m³ (Workers)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	long term/systemic effects	1.3 mg/kg (Consumers)
Dermal	long term/systemic effects	10 mg/kg (Consumers)
		20 mg/kg (Workers)
Inhalative	long term/systemic effects	5 mg/m³ (Consumers)
	long term/local effects	5 mg/m³ (Consumers)
		5 mg/m³ (Workers)
	Acute/local effects	7.5 mg/m³ (Consumers)
		15 mg/m³ (Workers)

· **PNECs**	
67-63-0 propan-2-ol	
Aqua	140.9 mg/l (Marine water)
	140.9 mg/l (Freshwater)
Sediment	552 mg/kg (Marine water)
	552 mg/kg (freshwater)
Sewage treatment plant	2,251 mg/L (Sewage treatment plant)
Boden	28 mg/kg dw (Soil)

(Contd. on page 4)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 3)

112-34-5 2-(2-butoxyethoxy)ethanol	
Aqua	0.1 mg/l (Marine water)
	1 mg/l (Freshwater)
Boden	0.4 mg/kg dw (Soil)
	0.4 mg/kg dw (Marine water)
	4 mg/kg dw (Freshwater)

· **Additional information:** The lists valid during the making were used as basis.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Do not eat or drink while working.
Keep away from foodstuffs, beverages and food.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
· **Respiratory protection:** Not required.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
PVC or PE gloves
Recommended thickness of the material: ≥ 0.4 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong material gloves
· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	Fluid
· **Colour:**	Colourless
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	8.1

(Contd. on page 5)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 4)

· **Change in condition**	
· **Melting point/freezing point:**	Undetermined.
· **Initial boiling point and boiling range:**	Undetermined.
· **Flash point:**	47 °C (ASTMD93(PMCC))
· **Flammability (solid, gas):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	0.96 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
· **water:**	Fully miscible.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
· **Dynamic at 20 °C:**	70 mPas
· **Kinematic:**	Not determined.
· **Solvent content:**	
· **Organic solvents:**	4.0 %
· **Solids content:**	0.0 %
· **Other information**	The product does not sustain combustion according to the UN Transport Regulation Test L.2.

10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD-50	>1,816-2,103 mg/kg (rat)
Dermal	LD-50	>16,539 mg/kg
Inhalative	LC-50/4 h	680 mg/l (mouse)

157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated		
Oral	LD-50	1,150 mg/kg (rat)
160875-66-1 Poly(oxy-1,2-ethandiyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy		
Oral	LD-50	>2,000-5,000 mg/kg (rat) (OECD-Richtlinie 423)
Dermal	LD-50	>5,000 mg/kg (rat) (OECD-Richtlinie 402)

(Contd. on page 6)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 5)

64366-70-7 2-Ethyl Hexanol EO-PO		
Oral	LD-50	>2,000 mg/kg (rat)
Dermal	LD-50	>2,000 mg/kg (rat)
67-63-0 propan-2-ol		
Oral	LD-50	5,030 mg/kg (rabbit)
		3,570 mg/kg (rat)
Dermal	LD-50	12,800 mg/kg (rat)
Inhalative	LC-50/4 h	27.2 mg/l (mouse)
		72.6 mg/l (rat)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD-50	3,384 mg/kg (rat)
Dermal	LD-50	2,700 mg/kg (bunny)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated	
EC-10	>1,000 mg/L (Belebtschlamm)
EC-50 48h	1-10 mg/l (Daphnia magna) (Literaturangabe)
EC-50 72h	1-10 mg/l (Scenedesmus subspicatus) (Literaturangabe)
LC-50 96h	1-10 mg/l (Brachydanio rerio)
160875-66-1 Poly(oxy-1,2-ethandiyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy	
EC-20 (3h) (static)	~180 mg/l (Belebtschlamm) (OECD-Richtlinie 209)
EC-50 48h (static)	1-10 mg/l (Daphnia magna) (OECD-Richtlinie 202)
EC-50 72h (static)	10-100 mg/l (Scenedesmus subspicatus)
64366-70-7 2-Ethyl Hexanol EO-PO	
EC-50 48h (static)	72.1 mg/l (Daphnia magna)
ErC-50 72h	31.9-97.7 mg/l (Desmodesmus subspicatus)
67-63-0 propan-2-ol	
LC-50 48 h	>100 mg/L (Leuciscus idus)
EC-50	>1,000 mg/l (Belebtschlamm) (Atmungshemmung des Belebtschlamms)
EC-10 (17 h)	5,175 mg/l (Pseudomonas putida)
EC-50 48h	2,285 mg/l (Daphnia magna)
EC-50 72h	>1,000 mg/l (Desmodesmus subspicatus)
LC-50 96h	1,400 mg/l (Lepomis macrochirus)
	9,640 mg/l (Pimephales promelas)
ErC-50 72h	>100 mg/l (Scenedesmus subspicatus)
112-34-5 2-(2-butoxyethoxy)ethanol	
EC-10 (17 h)	1,170 mg/l (Pseudomonas putida)
EC-50 24h	2,850 mg/l (Daphnia magna)

(Contd. on page 7)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 6)

LC-50 96h	1,300 mg/l (Lepomis macrochirus)
NOEC (96h)	>100 mg/l (Desmodesmus subspicatus)

· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Do not allow product to reach ground water, water course or sewage system.
The product may not be released into the environment without control.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** Dispose of in accordance with Local, State, and Federal Regulations.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **UN-Number** · **ADG, ADN, IMDG, IATA**	Void
· **UN proper shipping name** · **ADG, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)** · **ADG, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **ADG, IMDG, IATA**	Void
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

* 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**
All ingredients are listed.

(Contd. on page 8)

Safety Data Sheet
according to WHS Regulations

Printing date 07.11.2026 Version number 12 Revision: 07.11.2026

Trade name: Derval Protect

(Contd. of page 7)

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**



GHS05

· **Signal word** Danger
· **Hazard statements**
Causes serious eye damage.
Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
Avoid release to the environment.
Wear protective gloves / eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	1-5

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The information of Items 4 through 8 and 10 through 12 partially refers not to the use and the proper application of the product (see Directions for Use/Product Information) but to the release of larger quantities in the case of accidents and irregularities.
The information exclusively describes the safety requirements of the product(s) and is based on the present state of our experience.
Non-ionic tensides can have varying characteristics and classifications despite same CAS-No.

· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:**
Department T-PS
Herr Heiko Schmidt
+49 (0) 611/9271-0
· **Contact:** Herr Heiko Schmidt
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 9)

Safety Data Sheet
according to WHS Regulations

Trade name: Derval Protect

(Contd. of page 8)

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**