

Revision Date 06.01.2020

Neutron[®]Pharmachemical Co.

Version 4.4

SECTION 1. Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier**

Catalogue No. Product name	1.2550 Tween® 80 (Polysorbate) EMPROVE® ESSENTIAL Ph Eur,JP,NF	
REACH Registration Number	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.	
CAS-No.	9005-65-6	
1.2 Relevant identified uses of the substance or mixture and uses advised against		

Identified uses Pharmaceutical production, Cosmetic raw material ١

For additional information on uses please refer to The Neutron
Chemicals portal (www.neutronpharmachemical.com).

1.3 Details of the supplier of the safety data sheet

Company	98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran. T 021-66906732-3 - F 021-66581408
Responsible Department	LS-QHC * e-mail: Info@neutronpharmachemical.com

1.4 Emergency telephone 125 number

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

None known.

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SECTION 3. Composition/information on ingredients 3.1 Substance

Remarks	No disclosure requirement according to Regulation (EC) No. 1907/2006.

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed We have no description of any symptoms of toxicity.

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

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Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Cover drains. Collect, bind, and pump off spills. Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

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Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

	Glove material: Glove thickness: Break through time:	Nitrile rubber 0,40 mm > 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 30 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 730 Camatril® - Velours (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection

Not required; except in case of aerosol formation.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	yellow
Odour	odourless
Odour Threshold	Not applicable

Catalogue No. Product name	1.2550 Tween® 80 (Polysorbate) EMPROVE® ESSENTIAL Ph Eur,JP,NF
рН	5 - 7 at 50 g/l 20 °C
Melting point	No information available.
Boiling point/boiling range	> 100 °C at 1.013 hPa
Flash point	> 149 °C Method: c.c.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	< 1,33 hPa
Relative vapour density	No information available.
Density	1,07 g/cm3 at 25 °C
Relative density	No information available.
Water solubility	at 20 °C soluble
Partition coefficient: n-	No information available.
octanol/water Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	ca.425 mPa.s at 25 °C
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	
Viscosity, kinematic	300 - 500 mm2/s at 25 °C

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SECTION 10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity LD50 Rat: 42.200 mg/kg

(External MSDS)

Acute inhalation toxicity This information is not available.

Acute dermal toxicity This information is not available.

Skin irritation Rabbit Result: No irritation

(External MSDS)

Eye irritation Rabbit Result: No eye irritation

(External MSDS)

Sensitisation This information is not available. Germ cell mutagenicity

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Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative

(National Toxicology Program) Mutagenicity (mammal cell test): chromosome aberration.

(National Toxicology Program) Mutagenicity (mammal cell test): Result: negative

(National Toxicology Program)

Carcinogenicity

Result: positive

Did not show carcinogenic effects in animal experiments. (External MSDS)

Reproductive toxicity No impairment of reproductive performance in animal experiments. (External MSDS) *Teratogenicity*

This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout): 471 mg/l; 96 h (External MSDS) Toxicity to bacteria EC0 Pseudomonas putida: > 10.000 mg/l (External MSDS)

12.2 Persistence and degradability

Biodegradability 52 % OECD Test Guideline 301C Not readily biodegradable.

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Chemical Oxygen Demand (COD) 1.750 mg/g

(External MSDS) Ratio BOD/COD 32 % (External MSDS)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport i Land transport (ADR	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Inland waterway tra Not relevant	nsport (ADN)
Air transport (IATA)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Sea transport (IMDG)
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
14.7 Transport in bul Code Not relevant	lk according to Annex II of MARPOL 73/78 and the IBC

SECTION 15. Regulatory information

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

EU regulations

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5	VESO III t applicable	
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer		not regulated
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC		not regulated
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).
National legislation Storage class 10	- 13	

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

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