

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the substance of mixture:

Product name: Thermacol MP
Product type: Liquid
Product description: Anionic.
Aqueous solution of a derivate of Polyacrylic acid.

Uses of the substance/mixture:

Uses: Textile chemical

Company name: Nexchem Ltd
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Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Not classified.

Additional hazards: None known.

See Section 11 for more detailed information on health effects and symptoms.

Classification and labelling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases: This product is not classified according to EU legislation.

Contains:

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:

Type: Substance classified with a health or environmental hazard.
Substance with a workplace exposure limit.
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.
Substance of equivalent concern.

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4. FIRST AID MEASURES

First-aid measures:

- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Ingestion:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a comfortable for breathing. If material has been swallowed and the exposed person in conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.
- Notes to physician:** Symptomatic treatment.
- See Section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

- Suitable:** Use an extinguishing agent suitable for the surrounding fire.
- Not suitable:** None known.
- Special exposure hazards:** In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products:** Carbon, Nitrogen and Sulphur Oxides.
- Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions:** Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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Methods for cleaning up:

Small spill:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, if it is water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Handling:

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values:

Ingredient name:

No exposure limit value known.

Occupational exposure limits:

Recommended monitoring procedures: None assigned.

Exposure controls:

Occupational exposure controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures:

Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

1 - 4 hours (breakthrough time): butyl or neoprene.

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Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information:

Appearance:

Physical state: Liquid. (Viscous liquid.)

Colour: Yellow.

Odour: Aromatic.

Important health, safety and environmental information:

pH: 6.8 to 8 [Conc. (% w/w): 33%]

Boiling point: 100°C

Vapour pressure: 2 kPa (15 mm Hg) (room temperature)

Water solubility: Miscible.

Density: 1.096 g/cm³ [25°C (77°F)]

Viscosity: Dynamic: 32620 mPa·s (32620 cP)

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable.

Possibility of hazardous reactions: None

Conditions to avoid: No specific data.

Materials to avoid: None known.

Hazardous decomposition products: None under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics:

Absorption: Not available.

Distribution: Not available.

Metabolism: Not available.

Elimination: Not available.

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Potential acute health effects:

Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
THERMACOL MP	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary:	By analogy with similar formulations.			

Potential chronic health effects:

Chronic toxicity:

Conclusion/Summary: Not available.

Irritation/Corrosion:

Conclusion/Summary:

Skin: Non-irritant. The toxicological data is based on a product with comparable composition.
Eyes: Non-irritant. The toxicological data is based on a product with comparable composition.

Sensitizer:

Conclusion/Summary: Not available.

Carcinogenicity:

Conclusion/Summary: Not available.

Mutagenicity:

Conclusion/Summary: Not available.

Teratogenicity:

Conclusion/Summary: Not available.

Reproductive toxicity:

Conclusion/Summary: Not available.

Chronic effects: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Skin: No specific data.
Ingestion: No specific data.
Inhalation: No specific data.
Eyes: No specific data.

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12. ECOLOGICAL INFORMATION

Environmental effects: No known significant effects or critical hazards.

Aquatic ecotoxicity:

Product/ingredient name:	Test	Result	Species	Exposure
THERMACOL MP	OECD 203 Fish, Acute Toxicity Test	Acute LC0 1000 mg/L	Fish - Rainbow trout (Oncorhynchus mykiss, Salmo gairdneri)	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >1000 mg/L	Fish - Rainbow trout (Oncorhynchus mykiss, Salmo gairdneri)	48 hours

Conclusion/Summary: Not available.

Biodegradability:

Product/ingredient name	Test	Result	Dose	Inoculum
THERMACOL MP	Precipitation effect	>90 % - Not readily - 1 days	-	-

Conclusion/Summary: Elimination by precipitation or flocculation.

BOD5: 30 mgO₂/g

COD: 680 mgO₂/g

TOC: 7.9 %

Other adverse effects: No known significant effects or critical hazards.

Organohalogen content: 0%

PBT: Not applicable.

Other information:

Phosphorus Content: 0%

Nitrogen Content: <1%

Metal content under the ETAD recommended limits.

13. DISPOSAL CONSIDERATIONS

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

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14. TRANSPORT INFORMATION

International transport regulations:

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
ADR/RID Class	Not applicable.				
ADN Class	Not applicable.				
IMDG Class	Not applicable.				
IATA Class	Not applicable.				
Remarks:	PG*: Packing Group.				

15. REGULATORY INFORMATION

Chemical Safety Assessment:	This product contains substances for which Chemical Safety Assessments are still required.
EU regulations:	Classification and labelling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.
Product use:	Industrial applications.
VOC content:	0%
International regulations:	
Note:	The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification of the substance or mixture: Not classified.

GHS label elements:

Signal word:	No signal word.
Hazard statements:	No known significant effects or critical hazards.
Precautionary statements:	
Prevention:	Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.

Legal disclaimer:	The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
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