

# TECHNOLOGY STATION IN CHEMICALS (TSC)

The Technology Station in Chemicals (TSC) offers a wide range of services designed to assist SMEs in the Chemical sector. The Station is located at the Tshwane University of Technology (TUT), Ga-Rankuwa campus and is supported by the Chemistry and Chemical Engineering Departments of TUT. TUT's experienced staff, consisting of Scientists, Technologists, Technicians and external service providers, participate in product development of various projects.



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## TECHNOLOGY COMPETENCIES AND OFFERINGS

- Development of material safety data sheets (MSDS)
- Formula development
- Hazards and operability studies
- Product analysis
- Product development
- Product evaluation and quality test

### Development of material safety data sheets (MSDS)

The MSDS is a very important official document reflecting the hazards and reactive reaction required in time of emergencies during the process of handling the product.

### Formula development

TSC has the capability of developing new formulations that will meet the customer's needs. Development or revision of existing formulations is part and parcel of reformulation. N.B. It is extremely important to note is that the Station does not sell formulations.

### Hazards and operability studies

The Station can conduct Hazards and Operability studies to identify risks and hazards in settings of SMEs, including the process of manufacturing, raw materials handling and packaging.

### Product analysis

TSC conducts both routine and non-routine speciality inorganic and organic analysis and testing.

### Product development

Products are developed to meet the customer's need or South African Bureau of Standards (SABS) specification. Developments include pH adjustments, viscosity balancing emulsification, preservation and other corrections of physical and chemical parameters required to render the approved quality product.

## Technologies available

Bar Soap Making Technology  
Cosmetic Technology  
Detergent Technology  
Electroplating Technology  
Essential Oils Technology  
Perfume Making Technology  
Surface Coating Technology  
Manufacturing different types of paints & vanishes

## Product evaluation and quality test

TSC provides specialized testing services to analyse and evaluate existing products.

## Product research

TSC conducts research on developing new products and also on improving and optimizing existing products. The research also involves conversion of ideas into prototypes.

## Training

- Basic Cosmetic Technology
- Batch adjustments, filling and flushing
- Detergent Technology
- Emulsion Technology
- Large Manufacturing
- Quality Management System (QMS)
- Safety Health and Environment

## CONTACT DETAILS

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