

# SAFETY DATA SHEET



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

|                              |  |
|------------------------------|--|
| Product name                 | <b>Iron Test Kit - Reagent N</b>   |
| SDS no.                      | SMI2342-1  |
| Use of the substance/mixture | Analytical reagent.<br>For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
| Supplier                     | BP Southern Africa(Pty) Ltd<br>10 Junction Avenue Parktown<br>Johannesburg<br>South Africa<br>2193                                 |
|                              | Product Technical Helpdesk: 0800 111 551<br>+27 (0)860 222166<br>Tygerberg Poison Centre: +27 (0)21 931 6129                       |
| EMERGENCY TELEPHONE NUMBER   |  |
| E-mail address               | MSDSAdvice@bp.com  |

## 2 . Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

**Additional hazards** Defatting to the skin.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

## 3 . Composition/information on ingredients

### South Africa

**This product does not contain any hazardous ingredients at or above regulated thresholds.**

## 4 . First aid measures

|                    |   |
|--------------------|---|
| Eye contact        | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician. Get medical attention immediately. |
| Skin contact       | Get medical attention immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Chemical burns must be treated promptly by a physician.                         |
| Inhalation         | Get medical attention immediately. If inhaled, remove to fresh air. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.   |
| Ingestion          | Get medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician.  |
| Notes to physician | Treatment should in general be symptomatic and directed to relieving any effects.   |

## 5 . Firefighting measures

### Extinguishing media

|   |   |
|---|---|
| <b>Suitable</b>                         | In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.  |
| <b>Not suitable</b>                     | Do not use water jet.   |
| <b>Hazardous decomposition products</b> | No specific data.   |
| <b>Unusual fire/explosion hazards</b>   | In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b>Special fire-fighting procedures</b> | No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.   |
| <b>Protection of fire-fighters</b>      | 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. |

|               |                           |              |                                |                                 |
|---------------|---------------------------|--------------|--------------------------------|---------------------------------|
| Product name  | Iron Test Kit - Reagent N | Product code | SMI2342-1                      | Page: 1/5                       |
| Date of issue | 19 December 2016          | Format       | South Africa<br>(South Africa) | Language ENGLISH<br>( ENGLISH ) |

## 6 . Accidental release measures

|   |   |
|---|---|
| <b>Personal precautions - For non-emergency personnel</b> | 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 spilt material. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.  |
| <b>Personal precautions - For emergency responders</b>    | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".   |
| <b>Environmental precautions</b>                          | Avoid dispersal of spilt 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).   |
| <b>Large spill</b>  | Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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. |
| <b>Small spill</b>  | Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| <b>Reference to other sections</b>                        | See Section 1 for emergency contact information.<br>See Section 5 for firefighting measures.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 12 for environmental precautions.<br>See Section 13 for additional waste treatment information.  |

## 7 . Handling and storage

|  |  |
|--|--|
| <b>Handling - Protective measures</b>                    | Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep away from alkalis.   |
| <b>Handling - Advice on general occupational hygiene</b> | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| <b>Storage</b>   | Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. 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. Separate from alkalis. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). |

## 8 . Exposure controls/personal protection

|                                       |  |
|---------------------------------------|--|
| <b>Occupational exposure limits</b>   | This product does not have any assigned OELs.  |
| <b>South Africa</b>                   | No exposure limit value known.   |
| <b>Exposure controls</b>              |  |
| <b>Occupational exposure controls</b> | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.<br>All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.<br>Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.<br>The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible. |
| <b>Hygiene measures</b>               | 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. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Personal protective equipment</b>  |  |
| <b>Respiratory protection</b>         | Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.<br>In case of insufficient ventilation, wear suitable respiratory equipment.<br>The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.   |
| <b>Hand protection</b>                | <b>General Information:</b><br>Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).<br>Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.   |

|                      |                           |                     |                                |                 |                        |
|----------------------|---------------------------|---------------------|--------------------------------|-----------------|------------------------|
| <b>Product name</b>  | Iron Test Kit - Reagent N | <b>Product code</b> | SMI2342-1                      | <b>Page:</b>    | 2/5                    |
| <b>Date of issue</b> | 19 December 2016          | <b>Format</b>       | South Africa<br>(South Africa) | <b>Language</b> | ENGLISH<br>( ENGLISH ) |

Recommended: Nitrile gloves.  
**Breakthrough time:**

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.

Our recommendations on the selection of gloves are as follows:

**Continuous contact:**

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

**Short-term / splash protection:**

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

**Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

**Note:** Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

#### **Eye protection**

Safety glasses with side shields.

#### **Skin and body**

Use of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

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## **9 . Physical and chemical properties**

### **General information**

#### **Appearance**

**Physical state** Liquid.

**Colour** Colourless.

### **Important health, safety and environmental information**

**pH** 1.26 [Conc. (% w/w): 100%]

**Boiling point / range** 100°C (212°F)

**Density** 1003 kg/m<sup>3</sup> (1.003 g/cm<sup>3</sup>) at 20°C

**Solubility** Miscible in water.

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|----------------------|---------------------------|---------------------|--------------------------------|--|
| <b>Product name</b>  | Iron Test Kit - Reagent N | <b>Product code</b> | SMI2342-1                      | <b>Page:</b> 3/5                       |
| <b>Date of issue</b> | 19 December 2016          | <b>Format</b>       | South Africa<br>(South Africa) | <b>Language</b> ENGLISH<br>( ENGLISH ) |

## 10 . Stability and reactivity

|   |  |
|---|--|
| <b>Stability</b>                        | The product is stable.   |
| <b>Conditions to avoid</b>              | No specific data.  |
| <b>Materials to avoid</b>               | Reactive or incompatible with the following materials: oxidising materials.                          |
| <b>Hazardous decomposition products</b> | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11 . Toxicological information

### Effects and symptoms

|                        |   |
|------------------------|---|
| <b>Eyes</b>            | Severely corrosive to the eyes. Causes severe burns.  |
| <b>Skin</b>            | Severely corrosive to the skin. Causes burns. May cause skin dryness and irritation.  |
| <b>Inhalation</b>      | May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs. |
| <b>Ingestion</b>       | Causes burns to mouth, throat and stomach.  |
| <b>Chronic effects</b> | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.  |

## 12 . Ecological information

|                              |                              |
|------------------------------|------------------------------|
| <b>Environmental hazards</b> | Not classified as dangerous. |
|------------------------------|------------------------------|

## 13 . Disposal considerations

|  |   |
|--|---|
| <b>Disposal considerations / Waste information</b> | 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. |
| <b>Other information</b>                           | At sea, used or unwanted product should be stored for eventual discharge into port approved waste oil disposal facilities.  |

## 14 . Transport information

Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA)

## 15 . Regulatory information

### Label requirements

|  |   |
|--|---|
| <b>Risk phrases</b>                                | This product is not classified according to EU legislation.   |
| <b>Other regulations</b>                           |   |
| <b>REACH Status</b>                                | The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH. |
| <b>United States inventory (TSCA 8b)</b>           | Not determined.   |
| <b>Australia inventory (AICS)</b>                  | Not determined.   |
| <b>Canada inventory</b>                            | Not determined.   |
| <b>China inventory (IECSC)</b>                     | Not determined.   |
| <b>Japan inventory (ENCS)</b>                      | Not determined.   |
| <b>Korea inventory (KECI)</b>                      | Not determined.   |
| <b>Philippines inventory (PICCS)</b>               | Not determined.   |
| <b>Taiwan Chemical Substances Inventory (TCSI)</b> | Not determined.   |
| <b>National regulations</b>                        | National legislation: Occupational Health and Safety Act (Act 85 of 1993).  |

|                      |                           |                     |                                |                 |                        |
|----------------------|---------------------------|---------------------|--------------------------------|-----------------|------------------------|
| <b>Product name</b>  | Iron Test Kit - Reagent N | <b>Product code</b> | SMI2342-1                      | <b>Page:</b>    | 4/5                    |
| <b>Date of issue</b> | 19 December 2016          | <b>Format</b>       | South Africa<br>(South Africa) | <b>Language</b> | ENGLISH<br>( ENGLISH ) |

## 16 . Other information

### History

**Date of issue/ Date of revision** 19/12/2016.

**Date of previous issue** No previous validation.

**Prepared by** Product Stewardship

**Key to abbreviations** Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

### Notice to reader

☒ Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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|----------------------|---------------------------|---------------------|--------------------------------|--|
| <b>Product name</b>  | Iron Test Kit - Reagent N | <b>Product code</b> | SMI2342-1                      | <b>Page:</b> 5/5                       |
| <b>Date of issue</b> | 19 December 2016          | <b>Format</b>       | South Africa<br>(South Africa) | <b>Language</b> ENGLISH<br>( ENGLISH ) |