



SAFETY DATA SHEET (SDS)

Trade Name: Cheiron Resources Ltd
Product Name: OilScreenSoil (Indigo)TM Test Kit
Date of Last Revision: 20 January 2017

SECTION 1: IDENTIFICATION

1.1 **Product identifier: OilScreenSoil (Indigo)**

OilScreenSoilTM kits were developed as fast, reliable, easy to use and inexpensive field monitoring tools for screening of petroleum products and oils.

Product form: Substance
Substance Name: Solvent Blue dye
C.A.S. No: 14233-37-5
Color Index Name: Solvent Blue 036
Formula/Chemical Family: Anthraquinone

1.2 **Relevant identified Uses:**

- OilScreenSoil kits are non-specific, "non-precision" qualitative tests that screen for a range of oils and petroleum hydrocarbons and a limited number of petroleum-based chlorinated solvents in soil, sand, or gravel.

Uses Advised Against/Restrictions on Use:

- Esters (detergents) are the only "known" substance to interfere with the dye's ability to stain petroleum hydrocarbon products. This may be applicable when screening for Ester based (i.e. synthetic) motor oils.
- OilScreenSoil kits are not recommended for use in the detection of gases (compounds with 4 carbons or less), or for use with heavy crude oils (Bunker C), or solid bituminous materials like asphalt or waxes.
- These test kits are designed for disposal after use and are not suitable for storage of contaminated soil, or corrosive materials.

1.3 **Canadian manufacturer/supplier Identifier:**

Cheiron Resources Ltd
#124, 919 Centre St NW
Calgary Alberta, Canada T2E 2P6
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<http://www.cheiron-resources.com> info@cheiron-resources.com
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1.4 **Emergency Telephone Number: 1 (403) 241-3276/1 (403) 467-0333**

SECTION 2 HAZARDS IDENTIFICATION

2.1 **Classification of Substance:**

GHS-US Classification:
Acute tox – oral (category 4) H302
Skin corr/irritation (category 3) H316
Eye dam/irritation (category 2b) H320
Acute tox-inhalation (category 4) H333

2.2 Label Elements:

GHS Labelling: Hazard Pictograms (GHS-US)



GHS07

Signal Word (GHS-US)

Warning

Hazard Statements (GHS-US)

H302 Harmful if swallowed
H316 Causes mild skin irritation
H320 Causes eye irritation
H333 May be harmful if inhaled

Precautionary Statements (GHS-US)

P301+
P312 If swallowed – call a Poison center/doctor/physician if you feel unwell
P261 avoid breathing dust/fumes
P64 wash skin thoroughly after handling
P270 do not eat, drink or smoke when using this product
P305+
P351+
P338 If in eyes: Rinse with water for a couple of minutes (remove contact lenses)
P337+
P313 If eye irritation continues seek medical attention
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Other hazards:

No data available

Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

Name: Solvent Blue 036
Product Identifier/CAS no: 14233-37-5
Weight%: 100
GHS-US Classification: Acute tox.-oral 4 H302
Skin corr./irritation 3 H316
Eye dam/irritation 2B H320
Acute tox.-inhalation 4 H333

SECTION 4 FIRST-AID MEASURES

Description of First Aid Measures:

General Information: A deminimus quantity of the dye is encapsulated in a water soluble cube within a plastic jar. It is highly unlikely a user would come in direct contact with the dye during use. Therefore, it is suggested that this product be used in accordance with good industrial practices.

Possible First Aid measures:

General : remove contaminated clothing

After inhalation: remove to fresh air, if breathing is difficult give oxygen and seek immediate medical attention

After Skin Contact: was affected area with soap and water. If irritation develops seek medical attention

After Eye Contact: Flush with cool water, holding eyelids apart for thorough irrigation. Seek medical attention

After Ingestion: induce vomiting. Seek medical attention

Most important symptoms and effects, both acute and delayed: A hazard evaluation of this product has been performed. This product is identified as a hazardous chemical under the criteria of the OSHA hazard Communication Standard (29 CFR 1910.1200)

Indication of Any immediate medical attention and special treatment needed:
No additional information

SECTION 5 FIRE-FIGHTING MEASURES

- 5.1 Normally stable, not combustible, nor flammable
Suitable extinguishing media: Water, Dry chemical, Carbon Dioxide, Foam
Unsuitable extinguishing media: None known
Fire Hazard: N/A
Explosion hazard: N/A
Reactivity: N/A
Specific hazards arising from the hazardous product (e.g., hazardous combustion products): Normally stable, not combustible nor flammable
Special protective equipment and precautions for fire-fighters: None expected. Firefighters should be equipped with self-contained breathing apparatus to guard against potentially toxic and irritating fumes. Avoid dusting, dust can form explosives mixtures with air.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 **General measures:**
For Non –emergency personnel:
Protective equipment see Section 8
Emergency procedures: Not applicable
For Emergency responders:
Protective equipment see Section 8
Emergency procedures: Not applicable
Avoid any uncontrolled release of material.
Environmental precautions: do not empty into drains or the aquatic environment
Methods and materials for containment and clean-up: Where spills are possible, a comprehensive spill response plan should be developed and implemented.
In the event of a spill or release: Utilize recommended protective clothing equipment. Spills should be controlled by using an absorbent dust control product and placed in containers.
To Clean-Up: spill area can be washed with water which should be collected for approved disposal. In the event of an uncontrolled release of this material the user should determine if the release is reportable under the applicable laws and regulations
No Additional information is available.

SECTION 7 HANDLING AND STORAGE

- 7.1 **Precautions for Safe Handling:**
Avoid over exposure to the dye in dust form which can cause irritation to the eyes, skin and breathing passages. When conducting tests it is recommended users wear rubber/vinyl gloves in case of leakage around the lid of the test kit.
- 7.2 **Conditions for safe storage, including any incompatibilities:**
Technical measures: None known
Storage conditions: Store **OilScreenSoil** test kits out of sunlight in a dry environment
Incompatible products: None known
Incompatible materials: None known
Storage area: see above
Special rules on Packaging: None known

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION



Protective Gloves:

Plastic or rubber gloves.

Eye Protection:

Safety goggles

Protective clothing/equip:

Coveralls

Work/hygienic practices:

Wash dye contaminated clothes & skin with mild soaps and detergents

Special Precautions:

In accordance with good industrial practice, handle this product with care and avoid personal contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc.): Blue powder

Odour: Odourless

Odour threshold: No data

PH Factor: N/A

Specific Gravity (H₂O-1): N/A

Melting/freezing point: 171C

Initial boiling point/boiling range: 0.00

Flash point: Normally stable, not combustible nor flammable

Evaporation Rate (BUTYL ACT=1): No data

Flammability (solid; gas): Normally stable, not combustible nor flammable

Lower flammable/explosive limit: N/A

Upper flammable/explosive limit: N/A

Vapour pressure (MM HG) = H₂O: N/A

Vapour Density (AIR=1): N/A

Relative density: N/A

Solubility: Each test contains a water soluble cube, encapsulating a dye that is insoluble in water, but soluble in oils and petroleum hydrocarbons

Partition coefficient - n-octanol/water: no data

Auto-ignition temperature: No data

Decomposition temperature: No data

Viscosity: No data

Explosive Properties: N/A

Oxidizing properties: N/A

Other information: no additional information available

SECTION 10 STABILITY AND REACTIVITY

Reactivity:

No data

Chemical Stability:

Stable.

Hazardous Polymerization:

Will not occur

Conditions to avoid:

Oxidizing and reducing agents may destroy color
Test kits should be stored out of sunlight which reduces the dye color

Incompatible materials:

Oxydizing & reducing agents may destroy color

Hazardous Decomposition Products:

CO, CO₂, Oxides of Nitrogen and other potentially toxic fumes

SECTION 11 TOXICOLOGICAL INFORMATION

Numerical measures of toxicity:

Oral (Animal): GREATER THAN 5000 MG/KG - RAT
Dermal (animal): GREATER THAN 2000 MG/KG - RAT.
Effects to eyes (Animal): EYES - RABBIT, NOT IRRITATING.
Skin irritation (Animal): SKIN - RABBIT, NOT IRRITATING.

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye irritation
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ (single exposure) May cause drowsiness/dizziness
Aspiration hazard: Not classified
Symptoms after inhalation: May cause drowsiness/dizziness
Symptoms after eye contact: Causes serious eye irritation
Symptoms after ingestion: Ingestion may cause nausea, vomiting and diarrhea

Medical conditions generally aggravated by exposure:

No data available on skin contact or inhalation. Persons with impaired pulmonary function or skin disorders may be more susceptible to the effects of this product or any type of dusty material.
HANDLE WITH CARE.

Overexposed person may notice coloration of skin (same color as handled) with some slight irritation.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: A hazard evaluation of this product has been performed. This product is identified as a hazardous chemical under the criteria of the O S H A Hazard Communication Standard (29 CFR 1910.1200).
Other adverse effects: No additional information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of used test kits according to local, regional, national, international regulations.

NOTE: due to the very small quantity of dye in each test kit – disposal would “typically” be governed by either the contaminant being screened for, or by disposal of used plastics. Check with local regulatory agencies if in doubt.

Waste disposal recommendations: Empty bags thoroughly. Carry out the proper recycling, re-usage or disposal. Please refer to the relevant EU regulations, in particular the guidelines/ decisions of the council regarding handling of wastes (e.g. 75/442/EEC, 91/689/EEC, 94/67/EC, 94/904/EC) as implemented in national regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number: None
Dept of Transportation DOT:
Transport Hazard Class(es): N/A
Hazard Labels DOT:
Packing group DOT: N/A
DOT special provisions:

Additional information:

Overland Transport: None
Transport by sea: None
Air Transport: None
DOT quantity limitations passenger aircraft: N/A
DOT quantity limitations cargo aircraft: N/A

SECTION 15 REGULATORY INFORMATION

US Federal Regulations: This substance is listed on the United States TSCA (Toxic Substance Control Act) inventory

US State Regulations: None

Other regulations:

<u>Chemical identity</u>	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
14233-37-5	X	X	-	X	-	-	-	-	-	-

TSCA STATUS IN COMPLIANCE
E C CLASSIFICATION (67/548/EEC-88/379/EEC) N/A
EINECS NUMBER YES
REACH CLASSIFICATION YES
R-PHRASES

Additional Regulatory Information: Listing on National Chemical Inventories TSCA (US), DSL (CANADA), EINECS (EUROPE), ENCS (JAPAN), 5-5112 KECL (KOREA) KE 03278 AICS (AUSTRALIA).

The following substances are not intentionally added and are not contained in this product: Phthalate esters, styrene monomers (100-42-5), Ethyl acrylate (140-88-5) Bisphenol A (80-05-7), Ethylenediamine tetraacetic acid and salts, Nitrilotriacetic acid and salts, PVC (9002-86-2), Kathon (26530-20-1, 2682-20-4, 55965-84-9), Benzene (71-43-2), Ethylbenzene (100-41-4)

SECTION 16 OTHER INFORMATION

Indication of changes: Not applicable

Other Information: Not available

NFPA Rating: Not applicable

HMIS Rating:

- Health: 1
- Flammability: 0
- Reactivity: 0
- Personal protection: D

GHS Full Text Phrases

- H302** Harmful if swallowed
- H316** Causes mild skin irritation
- H320** Causes eye irritation
- H333** May be harmful if inhaled as dust

Date of the latest revision of the SDS: 20 January 2017

DISCLAIMER:

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