

## SECTION 1 – CHEMICAL IDENTIFICATION

This SDS refers to the following VKIT product codes:

**VSOL-LC11** VKIT HPLC Wavelength Accuracy Standard Kit

## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	EINECS#	Name
12055-62-8	235-015-3	Holmium Oxide
7601-90-3	231-512-4	Perchloric Acid
7732-18-5	231-791-2	Water

Standard	Concentration
HPLC UV Wavelength Accuracy	50g/l in 10% Perchloric acid

## SECTION 3 – HAZARDS IDENTIFICATION

Corrosive.  
Oxidising.  
Heating may cause explosion.  
Contact with combustible material may cause fire.  
Causes severe burns.  
May form explosive peroxides.  
Harmful by inhalation, if in contact with skin and if swallowed.  
In case of accident or if you feel unwell, seek medical advice immediately.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing, gloves eye/face protection.  
Do not breathe vapour.

## SECTION 4 – FIRST AID MEASURES

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 30 minutes. Remove any contaminated clothing and wash before reuse.  
If inhaled, remove to fresh air. If breathing is difficult give oxygen.  
If ingested, DO NOT induce vomiting, seek medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

Special fire fighting measure:

Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Contact with combustible materials may cause a fire. During a fire, irritating and highly toxic gases may be generated.

Extinguishing Media:

For small fires use dry chemicals, carbon dioxide or foam. For large fires use extinguishing media appropriate to surrounding fire conditions.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Use proper personal protection equipment as indicated in section 8.

Spills and leaks:

Clean up spills immediately, observing precautions in the protective equipment section. For larger spills cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal. Remove all sources of ignition. Provide ventilation.

## SECTION 7 – HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use adequate ventilation. Avoid contact with heat, sparks and flame. Do not get on skin or in eyes. Avoid ingestion and inhalation.

Storage:

Keep away from heat sparks and flame. Store in a cool, dry, well-ventilated area away from combustible substances. Corrosives area. Do not freeze.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust ventilation.

Personal protective equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear compatible chemical-resistant gloves.

Clothing: Wear appropriate protective clothing to minimise contact with skin.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Pink liquid daylight  
Yellow liquid under fluorescent light  
Specific Gravity 1.136g/cm<sup>3</sup>

## SECTION 10 – STABILITY AND REACTIVITY

Protect from moisture and air. Store at room temperature in closed containers under normal storage and handling conditions. Avoid ignition sources and excess heat. Incompatible with strong acids and bases, amines, phosphorous halides, alcohols, organic materials and strong reducing agents.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Harmful if swallowed, inhaled or absorbed through the skin. Acute effects are that the material can be destructive to tissue of the mucus membrane and the upper respiratory tract, eyes and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

## SECTION 12 – ECOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with local and regional regulations.

## SECTION 14 – TRANSPORT INFORMATION

Declaration (railroad and road) ADR, RID UN 1802 , 8 (5.1), II  
Declaration (transport by air) IATA-DGR UN 1802 , 8 (5.1), II  
Declaration (transport by sea) IMDG-Code UN 1802 , 8 (5.1), II, Segregation Group: 1 (Acids)

## SECTION 15 – REGULATORY INFORMATION

European / International regulations.

EC Index No: 017-006-00-4  
Risk Phrases: Oxidizing, Corrosive.

Safety Phrases R 5 Heating may cause an explosion.  
R 8 Contact with combustible material may cause fire.  
R 35 Can cause severe burns.  
S 23 Do not inhale gas/fumes/vapour/spray.  
S 26 In case of contact with eyes, rinse immediately with plenty of water.  
S 36 Wear suitable protective clothing.  
S 45 In case of accident or if you feel unwell, seek medical attention.

## SECTION 16 – GENERAL INFORMATION

The wavelength accuracy solutions should be treated as a 10% solution of the above safety data information.

### Disclaimer

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibilities of such damages.*