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ReAgent

SAFETY DATA SHEET VeriGold Base Metal Test Solution

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	VeriGold Base Metal Test Solution
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: info@reagent.co.uk
PRODUCT NO.	2657
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 HAZARDS IDENTIFICATION

Irritating to eyes and skin.

CLASSIFICATION (1999/45) Xi;R36/38.

ENVIRONMENT

Release of the product into water systems will result in a local pH change which may affect aquatic organisms. The product is mobile in water and will spread in the aquatic environment. Discharge of large amounts into water may have severe ecological effects. The Environment Agency or other regulatory body must be informed of large or uncontrolled discharges to land or water. Spillages may cause slippery surfaces.

PHYSICAL AND CHEMICAL HAZARDS

Will corrode metal surfaces on prolonged or repeated contact. Exothermic reaction with alkalis.

HUMAN HEALTH

See section 11 for additional information on health hazards.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
SULPHURIC ACID ...%	231-639-5	7664-93-9	5-10%	C;R35

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

A dilute sulphuric acid mixture.

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! Always consider any dangers in the vicinity before approaching to treat the casualty. First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Never give anything by mouth to an unconscious person. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Get medical attention immediately.

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EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Prevent run-off from entering drains and watercourses. Be aware of dangers from other hazardous substances in the immediate area.

SPECIFIC HAZARDS

If the material is involved in a fire it will produce toxic and corrosive vapours or fumes. Sulphuric acid (H₂SO₄). Sulphurous gases (SO_x).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Avoid unauthorised discharge to the environment. Clean up any spillages immediately, prevent material from spreading and entering drains or sewage systems. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. If the mixture has entered a foul drain or sewage system in significant amounts to cause a hazard then the local water treatment company must be informed. If spillages to land cannot be treated safely or if contamination will occur the Environment Agency must be alerted immediately.

SPILL CLEAN UP METHODS

Small Spillages: Absorb with sand or other inert absorbent. OR Spread soda ash liberally over spillage and transfer to containers. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in sealable containers. Neutralise with aqueous soda ash slurry (CAUTION - VIGOROUS REACTION, HEAT GENERATED) and leave for 24 hours before sealing tightly. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Deliver for disposal according to local regulations. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid inhalation of vapours/spray and contact with skin and eyes. Do not eat, drink or smoke when using the product. Dilute by carefully adding the product to water, never add water to acid.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 15°C and 25°C. Store away from heat, direct sunlight and moisture. Store away from incompatible materials. Avoid freezing conditions. It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs	STEL - 15 min	Notes
SULPHURIC ACID ...%	OES	1 mg/m ³		

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits The WEL for Sulphuric Acid Mist is 0.05 mg/m³ over an 8 hour working period.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. If vapours or mists are generated, work in a fume cupboard.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection when vapours or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

HAND PROTECTION

Use full length gloves. Rubber or plastic Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

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EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Odourless		
SOLUBILITY	Miscible with water		
RELATIVE DENSITY	1.0 - 1.1 @ 20	pH-VALUE, CONC. SOLUTION	<1

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid exposure to high temperatures or direct sunlight. Avoid frost. Avoid storage with incompatible materials. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

MATERIALS TO AVOID

Water. Ammonia. Acids. Metals. Potassium permanganate. Organic solvents. Bases. Hydrides Nitrates Phosphorous. Phosphorous oxides Oxidising agents. The possibility of reaction with other materials cannot be excluded.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire may create Oxides of: Sulphur.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 2140 (Sulphuric acid - 25% solution) mg/kg (oral rat)

TOXIC CONC. - LC 50 0.51 mg/l (inhalation, rat)

INHALATION

Vapours or mists in high concentration damage mucous membranes. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

INGESTION

Irritating. May cause nausea, stomach pain and vomiting. May cause internal burns if ingested in large amounts.

SKIN CONTACT

Irritating to skin. Prolonged contact may cause skin burns.

EYE CONTACT

Irritating to eyes. Prolonged or repeated contact may cause damage to the eye.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Ecological effects cannot be excluded in the event of improper handling or disposal. The product will be absorbed into soil which may have an effect on organisms in the immediate area. Do not allow to enter drinking water, waste water or soil.

MOBILITY

The product is miscible with water and mobile in water systems. It will spread in the aquatic environment and travel through groundwater.

ACUTE FISH TOXICITY

Sulphuric acid: lethal from 1.2mg/l up; from 6.3 mg/l lethal in 24 hours.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Any waste material is classed as hazardous waste, it should only be disposed of through licenced waste handlers and treatment sites. Do not allow unauthorised disposal to the environment. Provide sufficient ventilation and appropriate extraction during disposal to avoid the WEL being exceeded. If disposal is taking place in a confined space and vapours are exceeding the WEL wear suitable respiratory protection or stop the disposal process. Allow the vapours to disperse.

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DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Avoid unauthorised disposal. Do not dump illegally onto land or into water.

14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	SULPHURIC ACID SOLUTION		
UN NO. ROAD	2796	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	TUNNEL RESTRICTION CODE	(E)
HAZARD No. (ADR)	80	ADR LABEL NO.	8
HAZCHEM CODE	2R	CEFIC TEC(R) NO.	80GC1-II+III
RID CLASS NO.	8	RID PACK GROUP	II
UN NO. SEA	2796	IMDG CLASS	8
IMDG PAGE NO.	8	IMDG PACK GR.	II
EMS	F-A, S-B	UN NO. AIR	2796
AIR CLASS	8	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Irritant

RISK PHRASES

R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S2 Keep out of the reach of children.
 S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S37 Wear suitable gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 S64 If swallowed, rinse mouth with water (only if the person is conscious).

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (CHIP 4)

16 OTHER INFORMATION

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

General rewrite

REVISION DATE 30/06/2010

VeriGold Base Metal Test Solution

REV. NO./REPL. SDS GENERATED 1

SDS NO. 11560

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R35 Causes severe burns.