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ReAgent

SAFETY DATA SHEET VERIGOLD TEST SOLUTION 18 - 24 ct

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME VERIGOLD TEST SOLUTION 18 - 24 ct
 SUPPLIER Reagent Chemical Services
 18 Aston Fields Road
 Whitehouse Industrial Estate
 Runcorn
 Cheshire WA7 3DL
 T: 01928 716903
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 E: info@reagent.co.uk
 PRODUCT NO. 2643
 APPLICATION General chemical reagent
 EMERGENCY TELEPHONE Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 HAZARDS IDENTIFICATION

Irritating to respiratory system. Causes burns.

CLASSIFICATION (1999/45) C;R34. Xi;R37.

ENVIRONMENT

The substance may produce a local pH change in water systems which could affect aquatic organisms. The product is miscible with water and will spread in water systems. 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

Very corrosive to skin and eyes. Will corrode metal surfaces on sustained or repeated contact. Exothermic reaction with alkalis. Reaction with cyanide compounds may produce hydrogen cyanide. If vapours are produced in enclosed spaces do not use without respiratory protection. Avoid contact with materials as specified in section 10.

HUMAN HEALTH

Will cause severe burns. See section 11 for additional information on health hazards.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
HYDROCHLORIC ACID ...%	231-595-7	7647-01-0	10-30%	C;R34 Xi;R37
NITRIC ACID ...%	231-714-2	7697-37-2	10-30%	O;R8 C;R35

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

COMPOSITION COMMENTS

An aqueous mixture of Nitric and Hydrochloric acids.

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. Always consider any dangers in the vicinity before approaching to treat the casualty. 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 assistance is needed take as much detail as possible about the incident and hazardous materials involved 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!

VERIGOLD TEST SOLUTION 18 - 24 ct**SKIN CONTACT**

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

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

In case of fire, toxic and corrosive gases may be formed. Oxides of nitrogen. Chlorine compounds.

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

Clean up any spillages immediately, prevent material from spreading and entering drains or sewage systems. Avoid unauthorised discharge to the environment. Large spillages or uncontrolled discharge to water systems must be alerted to the Environmental Agency or other regulatory body. If spillages to land cannot be treated safely or if contamination will occur the Environment Agency must be alerted immediately. 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.

SPILL CLEAN UP METHODS

Small Spillages: Neutralise with soda-ash or absorb with sand or other inert material. Large Spillages: Dam and absorb spillages with sand, earth or other inert, non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. 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.

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 combustible materials. Store away from incompatible materials. 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
HYDROCHLORIC ACID ...%	WEL	1 ppm	2 mg/m ³	5 ppm	8 mg/m ³	
NITRIC ACID ...%	WEL	2 ppm	5.2 mg/m ³	4 ppm	10 mg/m ³	

WEL = Workplace Exposure Limit.

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 generated and there is inadequate 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.

EYE PROTECTION

Wear approved safety goggles.

VERIGOLD TEST SOLUTION 18 - 24 ct**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	Pungent		
SOLUBILITY	Miscible with water		
RELATIVE DENSITY	About 1	pH-VALUE, CONC. SOLUTION	<1

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid extremes of temperatures. Avoid heat, direct sunlight and moisture. Avoid storage with incompatible materials.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Flammable/combustible material. Organic solvents. Metals. Alkali metals. Alkali earth metals. Bases, alkalis (inorganic). Bases, alkalis (organic). Oxidizable substances. Ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire may create Chlorine compounds Oxides of: Nitrogen.

11 TOXICOLOGICAL INFORMATION**INHALATION**

Irritating to respiratory system. Irritation of the mucous membranes, coughing and dyspnoea.

INGESTION

Causes burns to the mouth, throat, oesophagus and gastrointestinal tract.

SKIN CONTACT

Causes burns.

EYE CONTACT

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product contains hydrochloric acid which is harmful to aquatic organisms. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product will be absorbed into soil which may have an effect on organisms in the immediate area. Ecological effects cannot be excluded in the event of improper handling or disposal.

MOBILITY

The product is miscible with water and will spread in water systems. Small amounts of acid will be absorbed by the soil and neutralised by carbonates in the soil however larger amounts of acid will travel through groundwater.

BIOACCUMULATION

Low bioaccumulation potential.

ACUTE FISH TOXICITY

LC50>500mg/L (Nitrates). Lethal from 25 mg/l (Hydrochloric acid)

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.

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.

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14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains Hydrochloric Acid, Nitric Acid)		
UN NO. ROAD	3264	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	2X	CEFIC TEC(R) NO.	80GC1-II+III
RID CLASS NO.	8	RID PACK GROUP	II
UN NO. SEA	3264	IMDG CLASS	8
IMDG PACK GR.	II	EMS	F-A, S-B
UN NO. AIR	3264	AIR CLASS	8
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS	HYDROCHLORIC ACID 12.6%	
RISK PHRASES	R34	Causes burns.
	R37	Irritating to respiratory system.
SAFETY PHRASES	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

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. Introduction to Local Exhaust Ventilation HS(G)37. Approved Classification and Labelling Guide (CHIP 4)

16 OTHER INFORMATION

GENERAL INFORMATION

This datasheet is not intended to be a replacement for a full risk assessment, these should always be carried out by competent persons. Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

INFORMATION SOURCES

Raw material safety data sheets. ESIS Database Web-based literature.

REVISION COMMENTS

General rewrite

REVISION DATE 30/06/2010

VERIGOLD TEST SOLUTION 18 - 24 ct

REV. NO./REPL. SDS GENERATED 2

SDS NO. 11535

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R34	Causes burns.
R35	Causes severe burns.
R8	Contact with combustible material may cause fire.
R37	Irritating to respiratory system.