



Internationally certified disposable breathalyser

Redline

PRODUCTS (Pty)LTD

Reg.no. 1970/002060/07

Vat Reg. 4290107673

31.08.2018

MATERIAL SAFETY DATASHEET

SECTION 1. Product and Company Identification

Disposable Alcohol Breath Testers

1.2.1 Identified Uses:

Self Breath Alcohol Screening Device

1.2.1 Uses advised against :

n/a

Company Details

Name : Redline Products (Pty) Ltd

Factory

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Postal Address

Address : P.O.Box 82 , Strand, 7139
South Africa

Email : rob@redlinetest.com

Website : www.redlinetest.com

SECTION 2. Hazards Identification

2.1.1 The most important adverse physicochemical effects:

None known under normal use of product.

2.1.2 The most important adverse human health effects :

None known under normal use of product.

2.1.3 The most important adverse environmental effects :

None known under normal use of product.

2.2. Labelling : n/a

2.3. Particular hazards for man and environment :

These products are non-flammable, granulate filled glass tubes. Improper handling, leaks and/or damage to the tubes may release strong caustic/corrosive and/or irritant/harmful granulate material in solid form.

If the glass tubes are broken, the sharp edges may cause cuts or scratches.

Small parts and plastic bag could be a choking hazard.

The Yellow mixture contains low concentrations of Potassium Dichromate and Sulphuric Acid which will have certain hazards associated, (see composition under Section 3)

SECTION 3. Composition

3.1 Chemical characterisation

Name	Content	EC No.	UN No.	CAS - No.	Classification
Glass				65997-17-3	
Stainless Steel		266-048-1		65997-19-5	
Silica Gel	< 20 %	231-545-4		7631-86-9	
Potassium Dichromate	< 0.05 %	231-906-6	3085	7778-50-9	n/a (levels lower than 0.1% as per 1999/45/EC)
Polyethylene Bag		---		9002-88-48	
Polyethylene End Caps		---		9002-88-48	
Sulphuric Acid	< 5 %	231-639-5	2796	7664-93-6	R35,R36/38,H314 H315,H319

3.2 Other information

Glass Tube (70 mm)
2 X Stainless Steel Sieves
2 X Plastic End Caps
1 X Plastic Bag with Plastic Valve

Yellow Chemical – Silica Gel mixed with Sulphuric Acid and Potassium Dichromate.
Silica Gel

Hazardous Components Sulphuric Acid (< 2%)
 Potassium Dichromate (< 0.05%)

SECTION 4. First Aid Measures

NOTE : Only applies to Yellow Chemical

First Aid Skin	:	Promptly remove contaminated clothing. Wash affected area with plenty of water for at least 20 minutes. Seek medical attention
First Aid Eyes	:	Flush eyes with water for 15 minutes. Hold eye lids open while flushing. Seek medical treatment.
First Aid Ingested	:	Do not induce vomiting. Seek medical attention. Rinse mouth with water. Immediately give person plenty of water to drink.
First Aid Inhalation	:	Remove from contaminated area. If not breathing give artificial respiration. Seek medical attention.

SECTION 5. Fire Fighting Measures

Some of these materials may react violently with water.

Small Fires	:	Dry chemical, CO2, Halon, water spray or alcohol foam.
Large Fires	:	Water spray, fog or standard foam is recommended. Move container from fire area if you can do it without risk. Cool containers that are exposed to flames with water from the side until well after the fire is out. Positive-pressure self-contained breathing apparatus (SCBA) and chemical protective clothing may be worn.

SECTION 6. Accidental Release Measures

NOTE : Only applies to Yellow Chemical

- Precautions** : Avoid contact with yellow chemical. As a minimum use chemical resistant gloves, safety goggles and dust mask (FP2).
Restrict access to effected area.
- Spill or leak** : Mix with earth or non-organic material and then shovel into dry well-labelled containers for disposal or recovery.
Wash spillage area with large amounts of water.

SECTION 7. Handling and Storage

- Handling** : The tester is fragile and should be handled with care as to avoid glass breaking.

NOTE : Only applies to Yellow Chemical
Avoid contact of yellow chemical with skin and eyes. Avoid fumes. Do not ingest.

- Storage** : Store in a well-ventilated area, away from sunlight and moisture.
Do not Freeze.
Keep away from strong bases and organic compounds.
Keep away from flammable gasses and solids.
Keep away from Organic Peroxides.

SECTION 8. Exposure Controls / Personal Protection

8.1 Occupational Exposure Limits

No exposure limits established.

8.2 Exposure Controls

Handling according to the Instruction Use

8.3 Personal Protection

None required when handled according to the Instructions for use.

SECTION 9. Physical & Chemical Properties

9.1 General information:

The tester consists of a small (70 mm) glass tube containing yellow chemicals, which turn green in the presence of alcohol. The yellow chemical will react with moisture and generate heat.

The yellow chemical is kept in place by 2 stainless steel sieves.

Inside the tube on either side of the yellow chemicals is a filling of white crystals, which protect the chemicals against moisture. This storage Silica Gel is harmless and non-toxic.

A plastic snap-off end cap closes both ends of the tube. (Red and White)

A plastic bag containing a neck valve accompanies each tester.

The Redline product does not have any potential hazard or toxicity that would require any specific labelling.

9.2 Important information about the protection of health, safety and environment

Solubility		n/a
pH-value		n/a
Boiling point		n/a
Melting point		n/a
Flame point		n/a
Inflammability		n/a
Explosion limits	lower	n/a
	upper	n/a
Ignition temperature		n/a
Vapour pressure		n/a
Mass density		n/a
Further information		n/a

SECTION 10. Stability and Reactivity

General information

10.1 Conditions to Avoid

Avoid freezing as this could result in the tester not measuring correctly.

10.2 Incompatible Materials

The yellow chemical can react with alkalis generating heat. It can also react with most metals and generates highly flammable hydrogen.

10.3 Hazardous decomposition products :

Decomposition of the granulate in the tubes may produce toxic substances (sulphur oxides)

10.4 Other

The Product has a shelf life of 2 years.

SECTION 11. Toxicological Information

11.1 Toxicity tests

No toxicological problems are expected when the product is handled and used with due care. No toxicity data available for the contents of the tube (materials impregnated with different chemicals)

11.1.1 Specific symptoms in animal studies

No data available

11.1.2 Irritant/corrosive effects

Irritant and corrosive effects of the content of the content of the tubes cannot be excluded.

11.1.3 Sensitization

No data available

11.1.4 Subacute and Chronical toxicity

No data available

11.1.5 Carcinogenic, mutagenic and reproductive toxic effects

No data available

11.2 Effects on human body/ Experiments made in practice

after inhalation

Inhalation of dusts from the tube contents causes irritation or possible injury to the respiratory system.

after ingestion

Product contents could be harmful if swallowed. This product produces corrosive damage to the gastrointestinal tract if swallowed.

after eye contact

Eye contact with the contents of the tube causes corrosive damage with irritation and possible eye injury.

after skin contact

Skin contact with the contents of the tubes causes corrosive damage with irritation

11.3 Additional toxicological information

The toxicity of the impregnated carrier material contained has not been tested in detail.

SECTION 12. Ecological Information

No ecological problems are expected when the product is handled and used with due care and according to Instructions of use.

SECTION 13. Disposal Considerations

If discarded, wastes may be classified as hazardous waste. Tubes must be disposed of in accordance with all federal, state, provincial and local regulations.

Waste category

EWL (European waste list) 170204*

Waste designation

Glass , plastic and wood containing or contaminated with dangerous substances

Disposal Method Product	:	There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.
Disposal Method Packaging	:	Disposal in accordance with local legal provisions.

SECTION 14. Transport Information

14.1 ADR/RID and AND:

14.1.1 UN Number

3260

14.1.2 UN proper Shipping Name

Corrosive solid, acidic, inorganic, n.o.s. (Sulphuric acid, mixt.)

14.1.3 Transport Hazardous class(es)

Class 8

14.1.4 Packaging Group

Group III

14.1.6 Classification

C2

14.1.6 Environmental Hazards

No

14.1.7 Special precautions for User

Section 2.3 & Section 16

14.2 Marine transport IMDG:

14.2.1 UN Number

3260

14.2.2 UN proper Shipping Name

Corrosive solid, acidic, inorganic, n.o.s. (Sulphuric acid, mixt.)

14.2.3 Transport Hazardous class(es)

Class 8

14.2.4 Packaging Group

Group III

14.2.5 Classification

C2

14.2.6 Environmental Hazards

No

14.2.7 Special precautions for User

Section 2.3 & Section 16

14.2.8 EMS Number

8-10

14.2.9 MFAG

700

14.3 Air transport ICAO-TI and IATA-DGR:

14.3.1.1 UN Number

3260

14.1.2 UN proper Shipping Name

Corrosive solid, acidic, inorganic, n.o.s. (Sulphuric acid, mixt.)

14.1.3 Transport Hazardous class(es)

Class 8

14.1.4 Packaging Group

Group III

14.1.5 Classification

C2

14.1.6 Environmental Hazards

No

14.1.7 Special precautions for User

Section 2.3 & Section 16

SECTION 15. Regulatory Information

EEC Hazard Classification	:	
Risk Phases	:	
Safety Phases	:	Keep out of reach of children Avoid adding water to yellow chemical. Avoid contact, inhaling or ingesting of yellow chemical.
National Legislation	:	
No further information currently available.		

SECTION 16. Other Information

Note: These phrases only apply to the yellow chemical

Hazard Statements	Hazard categories
H 315	Causes skin irritation
H 314	Causes severe skin burns and eye damage
H 319	Causes eye irritation

R- Phrases	Hazard characteristics
R 35	Can cause severe burns if in direct contact
R 36/38	Irritating to eyes and skin

Precautionary Phrases	
P 201	Obtain special instructions before use
P 202	Do not handle until all safety precautions have been read and understood
P 264	Wash.....thoroughly after handling
P 305 + 351 + 338	If in Eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P 302 + 352	If on skin, wash with soap and water
P 332 + 313	If skin irritation occurs get medical advice/attention
P 337 + 313	If eye irritation persists get medical advice/attention

The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to the appropriate safety precautions.
It does not represent a guarantee of the properness of the product.

All information is given in good faith but without guarantee in respect of accuracy and no responsibility is accepted for errors or omissions or the consequences thereof.