This document contains ten pages of official COSHH (Data Safety) sheets for our gold testing acids.

Please do remember that these are the official data sheets which make no distinction between a road tanker full of acid and the equivalent to a perfume bottle full of acid.

The purpose of these pages is for stores and safety officers to have an official copy of the official data on file.

For a plain English summary concerning the tiny amounts of acid used for testing precious metals, see http://www.quicktest.co.uk/Instructions+safety/safety_precautions.pdf. Print out a copy for anyone using testing acids for the first time.
1 Identification of the substance and the company:

White Fluid

Quicktest, Park House, Greenhill Crescent, Watford Business Park, Watford, WD18 8PH. Tel 01923 220206

2 Composition:

Liquid: Containing Nitric Acid, Above 50%
EEC No. 231-714-2 CAS No.:7697-37-2

3 Hazards identification:

Toxic if swallowed. Causes severe burns.

4 First aid measures:

Eye Contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Skin contact: Drench the skin thoroughly with water and treat with magnesium Glycerol paste. Remove contaminated clothing and wash before reuse. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.
Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5 Fire Fighting:

Explosive in contact with combustible material. May evolve toxic fumes in fire

6 Accidental release measures:

Wear appropriate protective clothing. Inform others to keep at a safe distance. Spread soda ash liberally over the spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to a container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

7 Handling and storage:

Store at room temperature (below 15° C Recommended). Keep well closed and protected from direct sunlight and moisture. Store away from combustible materials.

8 Exposure controls/personal protection:

As appropriate to quantity handled. Respirator - Positive pressure hood. Ventilation - Fume cupboard. Gloves - High grade PVC. Eye protection - Goggles or face shield. Other Precautions - Plastic apron, sleeves, boots - if handling larger quantities.

9 Physical and chemical properties:

Form; Liquid Colour; Light yellow Odour; Very Pungent
10 Stability and reactivity:

Unsuitable working materials - Metals

Substances to be avoided;
Organic combustible substances, oxidizable substances, organic solvents, alcohols, ketones, aldehydes, amines, anilines, nitriles, organic nitro compounds, hydrazine and derivatives, acetylidene, metals, metal alloys, metallic oxides, alkaline earth metals, ammonia bases, acids, hydrides, hydrogen peroxide, phosphides, nitrides, lithium silicide.

11 Toxicological information:

Strongly corrosive substance. After skin contact - Burns. After eye contact - Burns, risk of blindness! After inhalation of vapours - coughing, dyspnoea. Inhalation may lead to the formation of oedemas in the respiratory tract. After ingestion - Tissue damage (mouth, oesophagus, gastrointestinal tract), strong pain (risk of perforation), bloody vomiting, death.

12 Ecological information:

Do not allow to enter drinking water supplies, waste water or soil. Harmful effect due to PH shift.

13 Disposal considerations:

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advise, or pass to a chemical disposal company.

14 Transport information:

UN No - 2031 IMDG class - 8

IMO - 8/2031 Packaging group - II

IATA - 2031 Packaging group - II ADR/RID: 8,2’(b)

15 Regulatory information:

Symbols - C, O, T Corrosive Oxidizing Irritant Toxic
R- Phrases - R35 Causes severe burns
Keep locked up, keep in a cool place, Avoid exposure - obtain special instructions before use, In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible). Do not breathe fumes, in case of eye contact rinse immediately with plenty of water and seek medical advise. Wear suitable protective clothing, wear suitable gloves, wear eye protection,

UK Exposure limits: OES, Long term, mg/m3: 5 - Nitric acid
ECNo.: 231-714-2

16 Other information:

Review Date: 14.02.12
Next Review Due: 14.02.13

NOT FOR DOMESTIC USE
1 **Identification of the substance and the company:**

Amber Fluid

Quicktest, Park House, Greenhill Crescent, Watford Business Park, Watford, WD18 8PH. Tel 01923 220206

2 **Composition:**

Liquid: Containing Nitric Acid above 14.5 %, Chromium (V1) oxide below 12.2 %

EEC No. 231-714-2

EEC No. 215-607-8

3 **Hazards identification:**

Contact with combustible material may cause fire. Carcinogenic by inhalation. Toxic if swallowed. Causes severe burns. May cause sensitization by skin contact.

4 **First aid measures:**

**Eye Contact:** Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.

**Inhalation:** Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.

**Skin contact:** Drench the skin thoroughly with water and treat with magnesium Glycerol paste. Remove contaminated clothing and wash before reuse. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.

**Ingestion:** Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5 **Fire Fighting:**

Explosive in contact with combustible material. May evolve toxic fumes in fire

6 **Accidental release measures:**

Wear appropriate protective clothing. Inform others to keep at a safe distance. Spread soda ash liberally over the spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to a container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

7 **Handling and storage:**

Store at room temperature (below 15°C Recommended). Keep well closed and protected from direct sunlight and moisture. Store away from combustible materials.

8 **Exposure controls/personal protection:**

As appropriate to quantity handled. Respirator - Positive pressure hood. Ventilation - Fume cupboard. Gloves - High grade PVC. Eye protection - Goggles or face shield. Other Precautions - Plastic apron, sleeves, boots - if handling larger quantities.

9 **Physical and chemical properties:**

Form; Liquid  Colour; Light red  Odour; Pungent
10 Stability and reactivity:

Unsuitable working materials - Metals

Substances to be avoided;
Organic combustible substances, oxidizable substances, organic solvents, alcohols, ketones, aldehydes, amines, anilines, nitriles, organic nitro compounds, hydrazine and derivatives, acetylidene, metals, metal alloys, metallic oxides, alkaline earth metals, ammonia bases, acids, hydrides.

11 Toxicological information:

Strongly corrosive substance. After skin contact - Burns. The substance rapidly leads to sensitization and to allergic reactions of the respiratory tract (risk of pneumonia) and to damage of the nasal mucous membranes (under given circumstances perforation of the septum) in predisposed persons. After eye contact - Burns, risk of blindness! After inhalation of vapours - coughing, dyspnoea. Inhalation may lead to the formation of oedemas in the respiratory tract. After ingestion - Tissue damage (mouth, oesophagus, gastrointestinal tract), strong pain (risk of perforation), bloody vomiting, death.

12 Ecological information:

Do not allow to enter drinking water supplies, waste water or soil. Harmful effect due to PH shift.

13 Disposal considerations:

Chemical residues are generally classified as special waste, and as such are covered by regulations that vary according to location. Contact your local waste disposal authority for advise, or pass to a chemical disposal company.

14 Transport information:

UN No - 1463  IMDG class - 5.1
2031  8

IMO - 5.1 / 1463  Packaging group - II
2/2031

IATA - 1463  Packaging group - II

15 Regulatory information:

Symbols - C, O, T  Corrosive  Oxidizing  Irritant  Toxic

R- Phrases - R35 - 49 - 8 - 25 -43.
Causes severe burns, may be carcinogenic by inhalation, contact with combustible material may cause fire, toxic if swallowed, may cause sensitisation by skin contact.

S - Phrases - S1 - 3 - 53 - 45 - 23 - 26 - 36 - 37- 39.
Keep locked up, keep in a cool place, Avoid exposure - obtain special instructions before use, In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).Do not breathe fumes, in case of eye contact rinse immediately with plenty of water and seek medical advise. Wear suitable protective clothing, wear suitable gloves, wear eye protection,

UK Exposure limits:  MEL, Long term, mg/m3: 0.05 - Chromium (V1) compounds (as Cr)

16 Other information:

Review Date:  14.02.12
Next Review Due:  14.02.13

Not for domestic use.
1 **Identification of the substance and the company:**
Blue Fluid
Quicktest, Park House, Greenhill Crescent, Watford Business Park, Watford, WD18 8PH. Tel 01923 220206

2 **Composition:**
Liquid: Containing Nitric Acid Below 50%, Hydrochloric acid Above 50%
EEC No. 231-714-2 CAS No.: 7697-37-2
EEC No. 231-595-7 CAS No.: 7647-01-0

3 **Hazards identification:**
Toxic if swallowed. Causes severe burns. Irritating to respiratory system. Avoid skin contact.

4 **First aid measures:**
Eye Contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Skin contact: Drench the skin thoroughly with water and treat with magnesium Glycerol paste. Remove contaminated clothing and wash before reuse. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.
Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5 **Fire Fighting:**
May ignite combustible material. May evolve toxic fumes in fire
Suitable extinguishing Media: Water spray

6 **Accidental release measures:**
Wear appropriate protective clothing. Inform others to keep at a safe distance. Spread soda ash liberally over the spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to a container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

7 **Handling and storage:**
Store at room temperature (below 15°C Recommended). Keep well closed and protected from direct sunlight and moisture. Store away from combustible materials.

8 **Exposure controls/personal protection:**
As appropriate to quantity handled. Respirator - Positive pressure hood. Ventilation - Fume cupboard. Gloves - High grade PVC. Eye protection - Goggles or face shield. Other Precautions - Plastic apron, sleeves, boots - if handling larger quantities.

9 **Physical and chemical properties:**
Form; Liquid Colour; Light red Odour; Very Pungent

10 **Stability and reactivity:**
Unsuitable working materials - Metals
Substances to be avoided; Aluminium, carbides, fluorine, Kmn04, strong bases, salts of oxyhalogenic acids, conc. sulphuric acid, semimetallic hydrogen compounds, semimetallic oxides, sulphides, vinylmethyl ether, lithium silicide, organic combustible substances, oxidizable substances, organic solvents, alcohols, ketones, aldehydes, amines, anilines nitriles, organic nitro compounds, hydrazine and derivatives, acetylidene, metals, metal alloys, metallic oxides, alkaline earth metals, ammonia, bases, acids, hydrides, hydrogen peroxide, nonmetallic oxides, nonmetallic halides, nonmetallic hydrogen compounds, nonmetals, phosphides, nitrides.
11 **Toxicological information:**

Strongly corrosive substance. After skin contact - Burns. After eye contact - Burns, risk of blindness! After inhalation of vapours - coughing, dyspnoea. Inhalation may lead to the formation of oedemas in the respiratory tract. After ingestion - Tissue damage (mouth, oesophagus, gastrointestinal tract), strong pain (risk of perforation in the oesophagus and stomach). After a latency period: cardiovascular failure.

12 **Ecological information:**

Do not allow to enter drinking water supplies, waste water or soil. Harmful effect due to PH shift.

13 **Disposal considerations:**

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advise, or pass to a chemical disposal company.

14 **Transport information:**

UN No - 2031
1789

IMDG class - 8

IMO - 8/2031
8/1789

Packaging group - II

IATA - 2031
1789

Packaging group - II

ADR/RID: 8,2’(b)

Correct technical name: Aquarega

15 **Regulatory information:**

Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).

Symbols - C

Corrosive

Oxidizing

Irritant

Toxic

R - Phrases - R35 - 34 - 37

Causes severe burns,


Keep locked up, keep in a cool place, Avoid exposure - obtain special instructions before use, In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible). Do not breathe fumes, in case of eye contact rinse immediately with plenty of water and seek medical advise. Wear suitable protective clothing, wear suitable gloves, wear eye protection,

UK Exposure limits: OES, Short term, mg/m3: 7 Hydrogen Chloride

EC No. : 231-714-2
231-595-7

16 **Other information:**

Review Date: 14.02.12
Next Review Due: 14.02.13

NOT FOR DOMESTIC USE.
1 Identification of the substance and the company:

Green Fluid
Quicktest, Park House, Greenhill Crescent, Watford Business Park, Watford, WD18 8PH. Tel 01923 220206

2 Composition:

Liquid: Containing Hydrochloric acid below 50%, Stannous chloride below 11%  
EEC No. 231-714-2      CAS No. 10025-69-1      EC-No.:231-868-0

3 Hazards identification:

Toxic if swallowed. Causes severe burns. Irritating to respiratory system. Avoid skin contact.

4 First aid measures:

Eye Contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.  
Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.  
Skin contact: Drench the skin thoroughly with water and treat with magnesium Glycerol paste. Remove contaminated clothing and wash before reuse. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.  
Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5 Fire Fighting:

May evolve toxic fumes in fire

6 Accidental release measures:

Wear appropriate protective clothing. Inform others to keep at a safe distance. Spread soda ash liberally over the spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to a container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

7 Handling and storage:

Store at room temperature (below 15°C Recommended). Keep well closed and protected from direct sunlight and moisture. Store away from combustible materials.

8 Exposure controls/personal protection:

As appropriate to quantity handled. Respirator - Positive pressure hood. Ventilation - Fume cupboard. Gloves - High grade PVC. Eye protection - Goggles or face shield. Other Precautions - Plastic apron, sleeves, boots - if handling larger quantities.

9 Physical and chemical properties:

Form; Liquid  Colour; Clear  Odour; Minimal
10 Stability and reactivity:

Unsuitable working materials - Metals

Substances to be avoided;
Aluminium, carbides, fluorine, KMnO4, strong bases, salts of oxyhalogenic acids, conc. sulphuric acid, semimetallic hydrogen compounds, semimetallic oxides, sulphides, vinylmethyl ether, silicide organic combustible substances, aldehydes, amines, hydrazine and derivatives, metals, metal alloys, metallic oxides, alkaline earth metals, hydrides, hydrogen peroxide, halogen - halogen compounds, nitrates.

11 Toxicological information:

Corrosive substance. After skin contact - irritant and caustic effects, mucosal irritation. After eye contact - Burns, risk of blindness!
After inhalation of vapours - irritation symptoms in the respiratory tract.
After ingestion - Tissue damage (mouth, oesophagus, gastrointestinal tract), strong pain (risk of perforation in the oesophagus and stomach), after a latency period: cardiovascular failure.

12 Ecological information:

Do not allow to enter drinking water supplies, waste water or soil. Harmful effect due to PH shift.

13 Disposal considerations:

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advise, or pass to a chemical disposal company.

14 Transport information:

UN No - 1789 IMDG class - 8

IMO -8/1789 Packaging group - II

IATA -1789 Packaging group - II

15 Regulatory information:

Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).

Symbols - Xn, C Harmful Corrosive
R- Phrases - R22 - 34 - 36 - 37- 38
Harmful if swallowed. Causes burns, irritating to eyes, respiratory system and skin.
S - Phrases - S45 - 26 - 36 - 37- 39.
Keep locked up, keep in a cool place, Avoid exposure - obtain special instructions before use, In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible). Do not breathe fumes, in case of eye contact rinse immediately with plenty of water and seek medical advise. Wear suitable protective clothing, wear suitable gloves, wear eye protection,

UK Exposure limits: OES, long term, mg/m3: 2 Tin compounds, inorganic
EC No. : 231-868-0

16 Other information:

Review Date: 14.02.12
Next Review Due: 14.02.13

NOT FOR DOMESTIC USE
QUICKTEST          SAFETY DATA SHEET

Identification of the substance and the company:

Clear Fluid

Quicktest, Park House, Greenhill Crescent, Watford Business Park, Watford, WD18 8PH. Tel 01923 220206

Composition:

Liquid: Containing Nitric acid below 10%, Sulphuric acid below 11%,
EEC No. 231-639-5       CAS No. : 10294-26-5

Hazard identification:

Toxic if swallowed. Causes severe burns. Irritating to respiratory system. Avoid skin contact. Serious damage to eyes.

First aid measures:

Eye Contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Skin contact: Drench the skin thoroughly with water and treat with magnesium Glycerol paste. Remove contaminated clothing and wash before reuse. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.
Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

Fire Fighting:

May evolve toxic fumes in fire

Accidental release measures:

Wear appropriate protective clothing. Inform others to keep at a safe distance. Spread soda ash liberally over the spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to a container and arrange removal by disposal company. Wash site of spillage thoroughly with water.

Handling and storage:

Store at room temperature (below 15°C Recommended). Keep well closed and protected from direct sunlight and moisture. Store away from combustible materials.

Exposure controls/personal protection:

As appropriate to quantity handled. Respirator - Positive pressure hood. Ventilation - Fume cupboard. Gloves - High grade PVC. Eye protection - Goggles or face shield. Other Precautions - Plastic apron, sleeves, boots - if handling larger quantities.

Physical and chemical properties:

Form; Liquid Colour; Clear Odour; Minimal
10 Stability and reactivity:

Light sensitive
Unsuitable working materials - Metals
Substances to be avoided;
Water, bases, phosphorus, phosphorus oxides, oxyhalogenic compounds, permanganates, nitrates, carbides, combustible substances, carbides, silicide organicorganic solvents, nitriles, organic nitro compounds, anilines, peroxides, picrates, nitriles, lithium silicide, aldehydes, amines, hydrides, halogen - halogen compounds. Organic combustible substances, oxidizable substances, organic solvents, alcohols, ketones, aldehydes, amines, anilines, nitriles, organic nitro compounds, hydrazine and derivatives, acetylidene, metals, metal alloys, metallic oxides, alkaline earth metals, ammonia bases, acids, hydrides, hydrogen peroxide.

11 Toxicological information:

Corrosive substance. After skin contact - causes severe burns under the formation of sloughs. After eye contact - leads to corneal damage, risk of blindness. After inhalation of vapours - irritation symptoms in the respiratory tract. May lead to the formation of oedemas in the respiratory tract. After ingestion - Tissue damage (mouth, oesophagus, gastrointestinal tract), strong pain (risk of perforation in the oesophagus and stomach), after a latency period: possibly pyloric stenosis.

12 Ecological information:

Do not allow to enter drinking water supplies, waste water or soil. Harmful effect due to PH shift. Toxic for equatic organisms.

13 Disposal considerations:

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advise, or pass to a chemical disposal company.

14 Transport information:

UN No - 2031 (NR) IMDG class - 8 EC-No.: 233-653-7
1830 (NR)
IMO -8/2031 Packaging group - II
8/1830
IATA -2031 (NR) Packaging group - II ADR/RID: NR
1830

15 Regulatory information:

Symbols - C Corrosive
R- Phrases - R35
Causes severe burns. Risk of serious damage to eyes.
Keep in a cool place, Avoid exposure - obtain special instructions before use, In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible). Do not breathe fumes, in case of eye contact rinse immediately with plenty of water and seek medical advise. Never add water to this product. Wear suitable protective clothing, wear suitable gloves, wear eye protection,

UK Exposure limits: OES, long term, mg/m3: 2 Tin compounds, inorganic

16 Other information:

Review Date: 14.02.12
Next Review Due: 14.02.13

NOT FOR DOMESTIC USE