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## SECTION 1: *Identification of the substance/mixture and of the company/undertaking*

### 1.1 Product identifier

**Trade Name:** SYR Resiliant ScrubClean Solution Heavy Duty SS3

**Contains:**

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).
- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
- Alcohol ethoxylate

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

For trade, professional and industrial floor cleaning.

### 1.3 Details of the supplier of the safety data sheet

Scot Young research Ltd  
Lye-by-Pass  
Lye  
Stourbridge  
West Midlands  
DY9 8HG  
United Kingdom

Telephone number: +44(0)1384 892021  
Fax: +44 (0)1384 421675  
E-mail address: info@syrcclean.com

### 1.4 Emergency telephone number

Emergency telephone number: +44(0)1384 892021

**NOTE:** This number is only available during the following office hours: **0900 to 1700 Monday to Thursday; 0900 to 1500 Friday.**

## SECTION 2: *Hazards identification*

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Corrosion 1B; H314  
Skin Sensitiser 1; H317  
Acute Toxicity 4; H302

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### 2.1.2 Classification according to Directive 1999/45/EC

Harmful; Xn; R22

Corrosive; R34



Irritant; Xi; R43

### 2.1.3 Additional information

For full text of R-phrases and Hazard- and EU Hazard- statements: See SECTION 16

## 2.2 Label elements

### 2.2.1 Labelling according to Regulation (EC) No 1272/2008 (CLP)

<b>Pictograms</b>			
<b>Signal Word</b>	<b>Danger</b>		
<b>Hazard Statements</b>	H314	<b>Causes severe skin burns and eye damage.</b>	
	H317	<b>May cause an allergic skin reaction.</b>	
	H302	<b>Harmful if swallowed.</b>	
<b>Precautionary Statements</b>	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
	P270	Do not eat, drink or smoke when using this product.	
	P280	Wear protective gloves/protective clothing/eye protection/face protection.	
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	P310	Immediately call a POISON CENTER or doctor/physician.	
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
	P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	
	P301 + P312, P330	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse Mouth.	
	P272	Contaminated work clothing should not be allowed out of the workplace.	
	P363	Wash contaminated clothing before reuse.	
	P273	Avoid release to the environment.	
	P391	Collect spillage.	
	P501	Dispose of contents/container in accordance with local/regional/national regulation.	

### 2.2.2 Labelling according to Directive 1999/45/EC

See SECTION 16.

## 2.3 Other hazards

This mixture does not contain any substances that are assessed to be PBT or vPvB.

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description of the mixture:**

A mixture of detergents, surfactants, biocides, phosphate and colourants in water.

**Hazardous ingredients:**

CAS No.	EC No.	Index No.	REACH Registration No.	% (weight)	Name	Classification according to Regulation (EC) No. 1278/2008 (CLP)	Classification according to 67/548/EEC
5949-29-1	201-069-1	N/A	N/A	10 - 15	Citric acid monohydrate	Skin Irrit. 2; H315.  Eye Irrit. 2; H319.  STOT SE 3; H335	Xi; R36/37/38.
85536-14-7	287-494-3	N/A	01-2119490234-40-xxxx	10 - 15	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	Skin Corr; 1C; H314.  Acute Tox. 4; H302.	Xn; R22  C; R34
68439-45-2	N/A	N/A	N/A	10 - 15	Alcohol ethoxylate	Acute Tox. 4; H302.  Eye Dam. 1; H318.	Xn; R22.  Xi; R41.
55965-84-9	N/A	613-167-00-5	N/A	0.0015 – 0.005	Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).	Acute Tox. 3; H301, H311, H331.  Skin Corr. 1B; H314.  Skin Sens. 1; H317 (SCL C≥ 0.0015%).  Aquatic Acute; H400.  Aquatic Chronic; H410.	T; R23/24/25.  C; R34.  Xi; R43 (SCL C≥ 0.0015%).  N; R50/53.

N/A – Not applicable

**SECTION 4: First aid measures****4.1 Description of first aid measures****First aid measures****Inhalation :**

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion :**

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.

Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact :**

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact :**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed****Over-exposure signs/symptoms****Inhalation :**

Irritation to the respiratory tract may result from overexposure to fumes, mist or vapour.

**Ingestion :**

Ingestion may cause nausea, burns and eventually vomiting and diarrhoea.

**Skin :**

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Adverse symptoms may include the following: burns, irritation, redness.

**Eyes :**

Adverse symptoms may include the following: pain or irritation, watering, redness. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

**See SECTION 11 for more detailed information on health effects and symptoms.**

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#### 4.3 Indications of any immediate medical attention and special treatment needed

**Notes to physician :**

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Show this Safety Data Sheet to the doctor in attendance.

**Protection of first aid personnel**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### SECTION 5: *Firefighting measures*

#### 5.1 Extinguishing media

**Suitable :**

Use water spray, fog or foam. Use an extinguishing agent suitable for the surrounding fire.

**Not suitable :**

Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products**

In combustion emits toxic fumes.

#### 5.3 Advice for firefighters

**Special precautions for fire-fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### SECTION 6: *Accidental release measures*

#### 6.1 Personal precautions, protective equipment and emergency Procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or

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walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Avoid breathing vapour or mist.

## 6.2 Environmental precautions

Water polluting material - may be harmful to the environment if released in large quantities.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and materials for containment and cleaning up

### Small spill :

Move containers from spill area. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

### Large spill :

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations . Contaminated absorbent material may pose the same hazard as the spilled product.

## 6.4 Reference to other sections

Note: see SECTION 1 for emergency contact information and SECTION 13 for waste disposal.

# SECTION 7: *Handling and storage*

## 7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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### 7.3 Specific end use(s)

Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### United Kingdom (UK) Workplace Exposure Limits

Not applicable.

#### Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)

##### DNELS

##### Ingredient name:

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Exposure /Effects	DNELs	Population
Long-term - systemic effects, Skin contact	170 mg/kg bw/day	Workers
Long-term - systemic effects, Inhalation	12 mg/m <sup>3</sup>	Workers
Long-term - systemic effects, Skin contact	85 mg/kg bw/day	Consumers
Long-term - systemic effects, Inhalation	3 mg/m <sup>3</sup>	Consumers
Long-term - systemic effects, Ingestion	0.85 mg/kg bw/day	Consumers

##### PNECs

##### Ingredient name :

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Compartment Detail	PNECs
Fresh water	0.268 mg/l
Marine	0.0268 mg/l
Sewage Treatment Plant	3.43 mg/kg
Soil	35 mg/kg
Intermittent Releases	0.0167 mg/l

### 8.2 Exposure controls

#### Hygiene measures :

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure that there is sufficient ventilation of the area.

#### Eye and face protection

Wear tightly fitting safety goggles, safety spectacles and/or Face shield (visor) with CE-label.

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#### Skin protection

Wear chemical protective gloves according to DIN EN 374 with CE-labelling. Suitable materials include Nitrile rubber, NBR. Gloves for mechanical protection do not provide protection against chemicals.

Wear protective clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance Physical state Colour	Warm red liquid.
Odour	Acrid.
Odour threshold	No data.
pH	0.9 – 3.5
Melting Point	Not applicable
Initial boiling point and boiling range	Approximately 100°C
Flash point	No data
Evaporation rate	No data
Flammability	Not classified as flammable
Explosion limits Upper Lower	No data
Vapour pressure	No data
Vapour density	No data
Relative density	1.04 – 1.09
Solubility	Highly soluble and miscible in water
Partition coefficient: n-octanol/water	No data
Auto-ignition temperature	Not applicable
Decomposition temperature	No data
Viscosity	No data
Explosive properties	Not applicable
Oxidising properties	No data

### 9.2 Other information

Not applicable.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under normal conditions of storage and use.



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### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Do not store above 25°C.

Avoid release to the environment.

### 10.5 Incompatible materials

No specific data. Avoid strong oxidising agents.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In combustion may emits toxic fumes.

## SECTION 11: *Toxicological information*

### 11.1 Information on toxicological effects

No data is available on the product. Based on the hazardous substances in the mixture and their concentration the product has been assessed according to the calculation method of Regulation (EC) 1272/2008 (as amended).

#### a) Acute toxicity

##### Oral

Harmful if swallowed.

##### Dermal

Based on the available data on component substances, the classification criteria for acute dermal toxicity are not met.

##### Inhalation

Based on the available data on component substances, the classification criteria for acute inhalation toxicity are not met.

##### Other routes

No data.

#### (b) Skin corrosion/irritation

May causes severe skin burns.

#### (c) Serious eye damage/irritation

May cause serious damage to eyes.

#### (d) Respiratory or skin sensitization

May cause an allergic skin reaction. The following components are classified as skin sensitising and result in the product being classified as a skin sensitiser:-

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).

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**(e) Germ cell mutagenicity**

Based on the available data on component substances, the classification criteria for germ cell mutagenicity are not met.

**(f) Carcinogenicity**

Based on the available data on component substances, the classification criteria for carcinogenicity are not met.

**(g) Reproductive toxicity**

Based on the available data on component substances, the classification criteria for reproductive toxicity are not met.

**(h) STOT-single exposure**

Based on the available data on component substances, the classification criteria for specific target organ toxicity as a result of single exposure are not met.

**(i) STOT-repeated exposure**

Based on the available data on component substances, the classification criteria for specific target organ toxicity as a result of repeated exposure are not met.

**(j) Aspiration hazard**

Based on the available data on component substances, the classification criteria for aspiration hazard are not met.

**Other information**

No applicable toxicity data. No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1 Toxicity**

No data is available on the product. Based on the hazardous substances in the mixture and their concentration the product has been assessed according to the calculation method of Regulation (EC) 1272/2008 (as amended).

The product is not classified as dangerous for the environment.

**12.2 Persistence and degradability**

Substance	Biodegradability
Citric acid	Biodegradable
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	Readily biodegradable

**12.3 Bioaccumulative potential**

No information.

**12.4 Mobility in soil**

Substance	Mobility in soil
Citric acid	Soluble in water

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be PBT or vPvB.

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**12.6 Other adverse effects**

No known other adverse effects.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Methods of disposal :**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste

disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste :**

The classification of the product may meet the criteria for a hazardous waste.

**SECTION 14: Transport information**

**14.1 UN number**

ADR	2586
RID	2586
ADN/ADNR	2586
ICAO/IATA	2586
IMO/IMDG	2586

**14.2 UN proper shipping name**

	<b>UN proper shipping name</b>
ADR	ALKYLSULPHONIC ACIDS, LIQUID
RID	ALKYLSULPHONIC ACIDS, LIQUID
ADN/ADNR	ALKYLSULPHONIC ACIDS, LIQUID
ICAO/IATA	ALKYLSULPHONIC ACIDS, LIQUID
IMO/IMDG	ALKYLSULPHONIC ACIDS, LIQUID

**14.3 Transport hazard class(es)**

ADR	8	CORROSIVE
RID	8	CORROSIVE
ADN/ADNR	8	CORROSIVE
ICAO/IATA	8	CORROSIVE
IMO/IMDG	8	CORROSIVE

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**14.4 Packing group**

ADR	III
RID	III
ADN/ADNR	III
ICAO/IATA	III
IMO/IMDG	III

**14.5 Environmental hazards**Environmentally hazardous and/or Marine Pollutant : **No****14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

CLP – Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

**REACH Status**

The substance(s) in this product has (have) been pre-registered, registered or are exempt according to Regulation (EC) No. 1907/2006 (REACH).

**SEVESO II Directive 96/82/EC (as amended).****Detergent Regulation [Regulation (EC) No 648/2004]**

Product ingredients include:-

- 5-15 w%
  - Anionic surfactant, non-ionic surfactant.
- < 5 w%
  - Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).

**UK Regulations**

COSHH – Control of Substances Hazardous to Health Regulations 2002 (as amended).

COMAH – Control of Major Accidents Hazards Regulations 1999 (as amended).



CHIP – The Chemical (Hazard Information and Packaging for Supply) Regulations 2009

**15.2 Chemical safety assessment**

Chemical safety assessments have been completed by the substance Registrants for some of the components of this product.

**SECTION 16: Other information**

**Labelling according to Directive 1999/45/EC**

<b>Symbols</b>			
<b>Indication of Danger</b>	Harmful	Corrosive	
<b>Risk Phrases</b>	R22	Harmful if swallowed.	
	R34	Causes burns.	
	R43	May cause sensitisation by skin contact.	
<b>Safety Phrases</b>	S23	Do not breathe gas/fumes/vapour/spray.	
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.	
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
	S46	If swallowed, seek medical advice immediately and show this container or label.	
	S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.	
	S61	Avoid release to the environment. Refer to special instructions/safety data sheets.	

**Full text of abbreviated H statements**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H314	Causes severe burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Full text of classifications (CLP)**

Acute toxicity, Category 3; H301, H311, H331  
 Acute toxicity, Category 4; H302,  
 Skin corrosion, Category 1B; H314  
 Skin sensitiser, Category 1; H317  
 Eye Damage, Category 1, H318  
 Skin Irritant, Category 2; H315  
 STOT- Single Exposure, Category 3; H335  
 Aquatic acute, Category 1; H400  
 Aquatic chronic, Category 1; H410

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**Full text of abbreviated R phrases**

R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classification (DSD/DPD)**

T	Toxic
Xn	Harmful
Xi	Irritant
C	Corrosive
N	Dangerous for the environment

**Other abbreviations**

PBT : Persistent, bioaccumulative and toxic.  
 vPvB : Very persistent and very bioaccumulative.

History	
Date of printing	
Date of issue/Date of revision	17/03/2014
Date of previous issue	Not applicable <sup>(1)</sup>
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**Note (1)** – New SDS for CLP/GHS compliant product labelling.

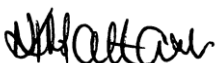
**Safety Data Sheet complied according to Regulation (EC) No. 1907 (as Amended).**

**Notice to readers**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Written: NK Matharu Bsc., C. Sci., C. Chem., M.R.S.C.**

Signed: 

Dated: 29.5.14