

# Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

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## SAFETY DATA SHEET “Meta super 600 SC”

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Name of Product:** “Meta super 600 SC”

**Active Ingredient:** S-Metalochlor 102.8 + Terbutylazine 497.2 SC

**Product Use:** Herbicide

**Registration holder:** Sharda International Africa

**Address:** P.O. Box 82021, Southdale, 2135

**Contact Tel. No.:** 031-764-3011

**Poison Centres:** UNITAS Hospital: 0800-111-9900  
Tygerberg Hospital: 021-931-6129  
Netcare 911: 082911

### 2. HAZARDS IDENTIFICATION

May be harmful if swallowed.  
Causes mild skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of causing cancer.  
Very toxic to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-pharse(s)	Concentration
terbutylazine	5915-41-3	227-637-9	Xn, N	R22 R50/53	44.5 % W/W
S-metolachlor	87392-12-9		Xi, N	R43 R50/53	9.2 % W/W
1,2-ethanediol	107-21-1	203-473-3	Xn	R22	1 - 5 % W/W
poly(oxy-1,2-ethanediyl), alpha-sulfoomega-[tris(1-phenylethyl)phenoxy]-, ammonium salt	119432-41-6, 137672-70-9		Xi	R36 R52/53	1 - 5 % W/W
poly(oxy-1,2-ethanediyl), alpha-phenyl-omega-hydroxy-, styrenated	99734-09-5, 104376-75-2		N	R51/53	1 - 5 % W/W

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butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	577-11-7	209-406-4	Xi	R38 R41	1 - 5 % W/W
formaldehyde	50-00-0	200-001-8	T	R23/24/25 R34 R40 R43	0.2 - 0.5 % W/W

## 4. FIRST AID MEASURES

### General advice:

Have the product container, label or Material Safety Data Sheet with you when calling the Sharda International Africa emergency number, a poison control centre or physician, or going for treatment.

### Inhalation:

Remove to fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Keep patient warm and at rest.

Call a physician or Poison Control Centre immediately.

### Skin contact:

Take off all contaminated clothing immediately.

Wash off immediately with plenty of water.

If skin irritation persists, call a physician.

Wash contaminated clothing before re-use.

### Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses.

Immediate medical attention is required.

### Ingestion:

If swallowed, seek medical advice immediately and show this container or label.

Do NOT induce vomiting.

### Medical advice:

There is no specific antidote available. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media:

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam or Water spray

### Extinguishing media:

Does not use a solid water stream as it may scatter and spread fire.

Which shall not be used for safety reasons

### Specific hazards during firefighting :

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to health.

### Special protective equipment for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

### Further information :

Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions Environmental:

Refer to protective measures listed in sections 7 and 8.

### Precautions:

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

### Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### Additional advice:

If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. HANDLING AND STORAGE

### Handling

#### Advice on safe handling:

No special protective measures against fire required.

Avoid contact with skin and eyes.

When using, do not eat, drink or smoke.

For personal protection see section 8.

### Storage

#### Requirements for storage areas and containers:

No special storage conditions required.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	Exposure limit(s)	Type of exposure limit
terbuthylazine	0.8 mg/m <sup>3</sup>	8 h TWA
S-metolachlor	10 mg/m <sup>3</sup>	8 h TWA
1,2-ethanediol	10 mg/m <sup>3</sup>	8 h TWA
	52 ppm	8 h TWA
	104 ppm	Short term exposure limit
	52 mg/m <sup>3</sup>	8 h TWA
	20 ppm	8 h TWA
	104 mg/m <sup>3</sup>	15 min STEL
formaldehyde	40 ppm	
	0.3 ppm	TLV-C
	20 ppm	IDLH
	0.5 ppm	15 min STEL
	0.3 ppm	8 h TWA
	0.6 ppm	15 min STEL
2 ppm	8 h TWA	
2 ppm	15 min STEL	

## ENGINEERING MEASURES

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Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

## PERSONAL PROTECTIVE EQUIPMENT

### Protective measures:

The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

Personal protective equipment should be certified to appropriate standards.

### Respiratory protection:

A combination gas, vapor and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

### Hand protection:

Chemical resistant gloves should be used.

Gloves should be certified to an appropriate standard.

Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Suitable material

Nitrile rubber

### Eye protection:

If eye contact is possible, use tight-fitting chemical safety goggles.

### Skin and body protection:

Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation/penetration characteristics of the clothing material.

Wash with soap and water after removing protective clothing.

Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)

**Wear as appropriate:** Dust impervious protective suit

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	: free flowing suspension
<b>Colour</b>	: white to beige
<b>pH</b>	: 6.0 - 8.5 at 1 % w/v
<b>Density</b>	: 1.11 - 1.12 g/cm <sup>3</sup> at 20 °C
<b>Miscibility</b>	: Miscible
<b>Solubility in other solvents</b>	: Miscible in water

## 10. STABILITY AND REACTIVITY

### Hazardous decomposition

#### Products:

Combustion or thermal decomposition will evolve toxic and irritant vapors.

#### Hazardous reactions:

None known.

Hazardous polymerization does not occur.

Stable under normal conditions.

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## **11. TOXICOLOGICAL INFORMATION**

### **Acute oral toxicity:**

LD50 Rat, 3,181 mg/kg

GHS-Classification

Category 5

Derived from components.

### **Acute inhalation toxicity:**

LC50 Rat, > 8 mg/l, 4 h

GHS-Classification

None

Derived from components.

### **Acute dermal toxicity:**

LD50 Rabbit, > 3,700 mg/kg

GHS-Classification

None

Derived from components.

### **Skin irritation:**

Mildly Irritating

GHS-Classification

Category 3

Derived from components.

### **Eye irritation:**

Irritating

GHS-Classification

Category 2A

Derived from components.

### **Sensitisation:**

A skin sensitizer

GHS-Classification

Category 1

Derived from components.

### **Long term toxicity formaldehyde :**

In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

## **12. ECOLOGICAL INFORMATION**

### **ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

#### **Bioaccumulation:**

Terbuthylazine does not bioaccumulate.

S-Metolachlor does not bioaccumulate.

#### **Stability in water:**

Degradation half-life: 6 d Terbuthylazine is not persistent in water.

Degradation half-life: 53 - 147 d S-metolachlor is not persistent in water.

#### **Stability in soil:**

Degradation half-life: 77 - 169 d Terbuthylazine is not persistent in soil.

Degradation half-life: 12 - 46 d S-metolachlor is not persistent in soil.

#### **Mobility:**

Terbuthylazine has medium mobility in soil. S-metolachlor has medium mobility in soil.

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## ECOTOXICITY EFFECTS

### **Toxicity to fish:**

LC50 *Oncorhynchus mykiss* (rainbow trout), 5.2 mg/l , 96 h

GHS-Classification

Category 2

Derived from components.

### **Toxicity to daphnia and other aquatic invertebrates. :**

EC50 *Daphnia magna* (Water flea), 20 mg/l , 48 h

GHS-Classification

Category 2

Derived from components.

### **Toxicity to algae:**

EC50 *Pseudokirchneriella subcapitata* (green algae), 0.03 mg/l , 72 h

GHS-Classification

Category 1

Derived from components.

## **13. DISPOSAL CONSIDERATIONS**

### **Product:**

Do not contaminate ponds, waterways or ditches with chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incineration.

If recycling is not practicable, dispose of in compliance with local regulations.

### **Contaminated packaging:**

Empty remaining contents.

Triple rinse containers.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not re-use empty containers.

## **14. TRANSPORT INFORMATION**

### **Land transport**

*ADR/RID:*

UN-Number: 3082

Class: 9

Labels: 9

Packaging group III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(TERBUTHYLAZINE AND S-METOLACHLOR )

### **Sea transport**

*IMDG:*

UN-Number: 3082

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(TERBUTHYLAZINE AND S-METOLACHLOR )

Marine pollutant: Marine pollutant

### **Air transport**

*IATA-DGR*

UN-Number: 3082

Class: 9

Labels: 9

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Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(TERBUTHYLAZINE AND S-METOLACHLOR )

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Terbutylazine
- S-metolachlor
- Formaldehyde

### Symbol(s):

N Dangerous for the environment

Xn Harmful

### R-phrases(s):

R22 Harmful if swallowed.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases(s):

S 2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using do not eat, drink or smoke.

S35 This material and its container must be disposed of in a safe way.

S36/37 Wear suitable protective clothing and gloves.

S57 Use appropriate container to avoid environmental contamination.

**Note :** The product is classified and labelled in accordance with Directive 1999/45/EC.

**Signal Word:** Warning

### Hazard Statements:

H303 May be harmful if swallowed.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

### Precautionary Statements:

P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product.

P281 Use personal protective equipment as required.

P302 + P352 IF ON SKIN: wash with plenty of water.

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.

P391 Collect spillage.

P501 Dispose of contents/container to ..

**Remarks:** Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.

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Hazardous components which must be listed on the label:

- Terbutylazine
- S-metolachlor
- Formaldehyde

## 16. OTHER INFORMATION

### Further information

Text of R-phrases mentioned in Section 3:

<b>R22</b>	Harmful if swallowed.
<b>R23/24/25</b>	Toxic by inhalation, in contact with skin and if swallowed.
<b>R34</b>	Causes burns.
<b>R36</b>	Irritating to eyes.
<b>R38</b>	Irritating to skin.
<b>R40</b>	Limited evidence of a carcinogenic effect.
<b>R41</b>	Risk of serious damage to eyes.
<b>R43</b>	May cause sensitisation by skin contact.
<b>R50/53</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R52/53</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.