

Revised edition no: 1

Date: 02/09/2015

Supersedes: None

CLINCHER 960 EC

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

Product name : Clincher 960 EC

Chemical description : Metolachlor: 2-chloro-6-ethyl-N-(2-methoxy-1-methylethyl)

acet-o-toluidide

Use : Herbicide

Company identification : ADAMA South Africa (Pty) Ltd

21 Viben Street Brankenfell 7560

Emergency telephone

Number : + 27 21 982 1460

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name	value(s)	CAS No	EC No	Index No	Classification
Metolachlor	83-88%	51218-45-2	257-060-8		

3. HAZARDS IDENTIFICATION

Human Health Hazards : Irritating to eyes. May cause sensitization by skin contact. **Environmental Hazards** : Very toxic to aquatic organisms, may cause long term

. Very toxic to aquatic organisms, may cause long ter

adverse effects in the aquatic environment.

4. FIRST – AID MEASURES

First aid measures

Inhalation : Remove victim to fresh air. If breathing is difficult: provide

artificial respiration. Get medical attention.

Ingestion : Wash out mouth with plenty of water. Never give anything

by mouth to an unconscious person. Get medical

attention.

Skin contact: Remove contaminated clothing and shoes. Wash away

remainder with plenty of water.

Eye contact : Get medical attention. Wash out with plenty of water with

eyelid held wide open for at least 15 minutes.

Note to physician : No specific antidote known. Treat symptomatically and

give supportive therapy.

Protection of fire-fighters : Use appropriate protection (see section 8)

5. FIRE - FIGHTING MEASURES

Extinguishing media : For small fire: dry chemical powder, water spray carbon

dioxide. For large fire: foam, water fog, water spray.

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Special exposure hazards : Thermal decomposition may generate: carbon monoxide,

carbon dioxide, nitrogen oxides, and chlorides

Protection against fire : Do not enter fire area without proper protective equipment,

including respiratory protection. Use self-contained breathing

apparatus when in close proximity to fire.

Special procedures : Fight fires from a protected location. Dike fire control water

for later disposal.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use appropriate protection (see section 8). During cleaning

activity, shut off ignition sources.

Environmental precautions: Do not discharge into the environment. Do not empty into

drain

Methods for cleaning up : Absorb remainder in sand or other inert material. Collect

spilled material. Dispose of this material and its container at

hazardous or special collection points.

7. HANDLING AND STORAGE

Handling : Ventilation required.

Storage : Keep in original containers. Keep away from food, drink and

animal feeding stuffs. Store in dry, well-ventilated area.

Precautions in handling and storage: Handle in accordance with good industrial hygiene and safety

procedures. Avoid direct sunlight.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Industrial Hygiene : Wash hands thoroughly after handling. Wash clothing

before re-using

Personal Protection

- Respiratory protection : During spraying, wear suitable respirator equipment

Skin protection : Wear protective clothing.
Hand protection : Wear suitable gloves

- **Eye protection** : Chemical goggles or safety glasses.

Occupational Exposure Limits : No occupational exposure limits have been establish

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20 °C : Liquid
Colour : Brown
Odour : Faint odour
Melting point [°C] : 62.1 (metolachlor)
Density [g/ml] : 1.12@20°C

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Vapour pressure [mPa] : 4.2@ 20°C

Solubility in water : 488 ppm@25°C (metolachlor)

Flash point [°C] :>93

Boiling point [°C] : 100 @ 0.001 mmHg **Log P octanol/water** : 2.9 @ 25°C (metolachlor)

Flammability : May burn in the presence of open flames

Explosion properties : Not explosive

Oxidation properties : Avoid contact with strong oxiders, excessive heat, sparks or

open flame.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditionsMaterials to avoid: Oxidizing agents, acids, alkali

Decomposition products : Nitrogen oxide, chloride compounds, carbon oxides (CO,

CO₂)

11. TOXICOLOGICAL INFORMATION

Toxicity information

Rat oral LD50 [mg/kg] : > 2000 mg/kg
Rat dermal LD50 [mg/kg] : > 2000 mg/kg
Rat inhalation LC50 [mg/kg] :> 2.07 mg/
Dermal irritation (rabbit) : slight irritating
Eyes Irritation (rabbits) : moderately irritating
Sensitization : Strong sensitizer.

Carcinogenicity : (metolachlor) EPA Group C: Possible human carcinogen

Mutagenicity : Not mutagenic

Reproductive toxicity: Not considered to be toxic for the reproductive system

Teratogenicity: Not teratogenic in animal experiments.

12. ECOLOGICAL INFORMATION

96 H-LC50 – Rainbow trout [mg/l] : 1-10 48 H-NOEC- Daphnia magna [mg] : > 10 72 H-EC50 – Algae [mg/l] : <0.1

Bees LD50 [ug] : (48 hours)=24.5

Persistence and degradability : Soil

: Moderately persistent in soil Half-life time (t1/2) ~30 days

Adsorbed on organic matter and clay

: Water

Half-life time (t1/2)>200 days

Mobility : Soil: low mobility

Bioaccumulative potential : Low bioaccumulation potential.



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13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of in a pesticide approval landfill, or in a chemical

incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/ national regulations.

14. TRANSPORT INFORMATION

- **UN No.** : 3082

- **Proper shipping name** : Environmentally Hazardous substance, Solid.

- Packing group : III - Class : 9 - H.I. nr: : 90 - IMDG-Marine pollution : YES

15. REGULATORY INFORMATION

EU Classification : This product is provisionally labelled by the supplier in

accordance with the supplier understanding of the EU

regulations

Risk phrases: R36 – Irritating to eyes.

: R43 – may cause sensitilization by skin contact.

: R50/53 -= - Very toxic to aquatic organisms, may cause

adverse effects in the aquatic environment

Safety Phrases : S02 – Keep out of reach of children

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

: S24/25 - Avoid contact with skin and eyes.

: S26 - In case of contact with eyes, rinse immediately with

plenty of water and seek medical advise.

: S29/35 – Do not apply into drains, dispose of this material

and its container in a safe way.

: S57 - Use appropriate container to avoid environment

contamination.

: S61- Avoid release to environment. Refer to special

instructions/safety data sheets

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16. OTHER INFORMATION

DISCLAIMER OF LIABILITY: The information in this MSDS was obtained from sources which are believed to be reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and maybe beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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