

Material Safety Data Sheet

Metolachlor 960 g/L EC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: Metolachlor 960 g/L EC

Company Identification: SHANGHAI TENGLONG AGROCHEM CO., LTD.
Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai 200433, P.R.
CHINA

Telephone: +86 21 5506 3225

Fax: +86 21 5506 3699

Website: www.tlongagro.com

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Hazards Xn - Harmful

Risk Phrases R10 - Flammable

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36 - Irritating to eyes.

R65 - Harmful: May cause lung damage if swallowed.

Safety Phrases S2 - Keep out of reach of children.

S24/25 - Avoid contact with skin and eyes.

S36/37 - Wear suitable protective clothing and gloves.

3. COMPOSITION

Ingredient (common name)	CAS Number	Proportion
Metolachlor	51218-45-2	960g/L
Aromatic hydrocarbons	64742-94-5	To 1L

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Ingestion If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Can cause chemical pneumonitis and pulmonary oedema. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure. Seek immediate medical attention.

Skin Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.

Eyes In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 20 minutes, keeping eyelids open. Seek immediate medical attention.

Notes to Physician

Shanghai Tenglong Agrochem Co., Ltd www.tlongagro.com
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There is no specific antidote if this product is ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. The active ingredient of this product has a high affinity for activated charcoal. Five mg/kg activated charcoal suspension (50 g/400 ml water) can be given to absorb the remaining toxicant. Skin reactions have been treated with antihistamines and ointments containing an ant-inflammatory agent. Treat symptomatically. Contact with eyes may require specialized ophthalmologic attention.

Medical condition likely to be aggravated by exposure

Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam and water fog.

Hazardous Combustion Products

Oxides of carbon, nitrogen and sulphur.

Firefighting Equipment Wear approved self-contained breathing apparatus and full protective clothing.

Unusual Fire or Explosion Hazards Combustible product – C1.

There is a moderate risk of an explosion if commercial quantities of this product are involved in a fire. Violent steam generation or eruption may occur if direct water stream is applied on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Hazchem Code Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Spills In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing. Contain spill and absorb with earth, clay, sand, or other absorbent material and collect into labelled containers for disposal. Launder protective clothing before re-use.

7. HANDLING AND STORAGE

Handling Avoid contact with eyes and skin. Do not inhale spray mist. Use of safe work practices is recommended. Observe good personal hygiene.

Storage Store in the closed, original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Make sure that the product does not come into contact with strong oxidising agents.

8. EXPOSURE CONTROLS

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

For commercial applications and on-farm applications consult the product label.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing spray or mist, wear a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a supplied-air respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Light yellow homogeneous liquid

Odour Faint odour

Solubility in Water 480ppm at 20°C

Boiling Point No information available

Freezing Point No information available

Vapour Pressure 3.7mpa at 25°C

Vapour Density (Air = 1) No information available

Specific Gravity 1.11 - 1.13 at 20°C

pH 5 - 9

Volatility No information available

Odour Threshold No information available

Evaporation Rate No information available

Autoignition Temperature No information available

Flash Point >93°C

Upper Flammability Limit No information available

Lower Flammability Limit No information available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal storage conditions.

Incompatible Materials Strong acids, bases and oxidising agents.

Hazardous Decomposition Products

Oxides of carbon, nitrogen, hydrogen chloride gas and other compounds of chlorine.

Hazardous Polymerization Will not occur.

Conditions to Avoid Heat, flames and spark. Keep away from sources of ignition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity/irritation studies

Ingestion : Slightly toxic

Oral LD50 (rat) 2754 mg/kg body weight

Dermal : Practically non-toxic

Dermal LD50 (rabbit) >3000 mg/kg body weight

Inhalation : Slightly Toxic

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Inhalation LC50 (rat) 1,6 mg/l air – 4 hours

Eye Contact : Moderately irritating (rabbit)

Skin Contact : Moderately Irritating (rabbit)

Skin Sensitization : Sensitizing (guinea pig)

Mutagenic potential

Metolachlor : None observed

Reproductive hazard potential

Metolachlor : None observed

Carcinogenic potential

Metolachlor : Small number of female rats developed benign liver tumors at extremely high dose levels.

12. ECOLOGICAL INFORMATION

Ecotoxicity Metolachlor (technical):

Fish:

LC50 (rainbow trout) = 3mg/L

LC50 (bluegill sunfish) = 15mg/L

LC50 (carp) = 5mg/L

Birds:

LD50 (Bobwhite quail) > 4500 mg/kg

LD50 (mallard ducks) > 2000 mg/kg

Mobility

Metolachlor is slightly to practically non-toxic to birds and moderately toxic to fish. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers

Instructions concerning the disposal of this product and its containers are given on the product label. Dispose according to applicable local and state government regulations.

Special precautions for landfill or incineration

Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

DOT Classification: Not Applicable. No label or placard required

B/L Freight Classification: Compound; Weed Killing (Herbicide), N.O.S.

International Transportation: Not applicable.

15. REGULATORY INFORMATION

Not available.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the

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workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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