

# Safety Data Sheet (SDS) OxaMyl 310 SL

According to UN GHS 8th Ed

Revision Date: 06/05/2022

First print date: 01/06/2018

Version: 1.1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

### Product identifier:

Identification as on the label/Trade name: **OxaMyl 310 SL**

Common name: **Oxamyl 310g/L SL**

### Relevant identification uses of the substance and uses advised against:

**Identified uses:** Insecticide

**Uses advised against:** Use only as directed.

### Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Details of the Registration Holder:

Erintrade t/a RT Chemicals 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: [www.envirobiochem.co.za](http://www.envirobiochem.co.za)

### Emergency telephone numbers:

**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP

Hazard classes/Hazard categories	Hazard statement
Flammable Liquid (Category 2)	H225
Acute toxicity oral (Category 2)	H300
Acute toxicity dermal (Category 3)	H311
Acute toxicity inhalation (Category 2)	H330
STOT SE (Category 1)	H370
Aquatic Toxicity Chronic (Category 2)	H411

For full text of H statements see section 16

### The most important adverse effects

**The most important adverse physiochemical effects:** Highly flammable liquid and vapour

**The most important adverse human health effects:** May be fatal if swallowed, May be fatal if inhaled. Toxic in contact with Skin. Causes damage to organs.

### Label elements



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**Hazard pictograms:**
**Signal Word:** Danger

**Hazard Statements:**

H225	Highly flammable liquid and vapour
H300	Fatal if swallowed
H311	Toxic in contact with skin
H330	Fatal if inhaled
H370	Causes damage to organs
H411	Toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P260	Do not breathe mist/spray.
P264	Wash hands, forearms, and face thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P284	In case of inadequate ventilation wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower to do – continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P330	Rinse mouth
P362/364:	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/ national regulations

**Other hazards:** Toxic to bees

**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**
**Substance/Mixture:** Mixture

**Ingredients:**

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Oxamyl	23135-22-0	32 %	Acute Toxicity Oral (Category 2) H300 Acute Toxicity Dermal (Category 4) H312 Acute Toxicity Inhalation (Category 2) H330 Aquatic Chronic (Category 1) H410
Methanol	67-56-1	< 40%	Flammable Liquid (Category 2) H225 Acute Toxicity Oral (Category 3) H301 Acute Toxicity Inhalation (Category 3) H331 Acute Toxicity Dermal (Category 3) H311 STOT SE (Category 1) H370

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4. FIRST AID MEASURES

#### Description of first aid measures:

**In case of inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **Seek medical attention immediately**

**In case of skin contact:** In case of contact, Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

**In case of eye contact:** Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

**In case of ingestion** Do not induce vomiting. Do not give anything by mouth to an unconscious person. Obtain medical attention immediately. If the person is alert, rinse mouth thoroughly with water and have patient take Ipecac followed by activated charcoal or water if instructed to do so by a physician or poison control centre.

#### Most important symptoms and effects, both acute and delayed:

**Anticipated acute effects:** Fatal if swallowed or inhaled.

**Anticipated delayed effects:** Causes damage to organs.

**Most important symptoms/effects:** Muscle twitching, and difficulty breathing, headaches, sweating, nausea, weakness, blurred vision, constriction of pupils amongst other symptoms.

#### Indication of any immediate medical attention and special treatment needed:

**Advice to Physician:** Oxamyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse and muscle tremors.

**Antidote:** Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg intravenously every 10 to 30 minutes until full atropinisation is achieved. Maintain atropinisation until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to Oxamyl 310g/ℓ SL alone. However, for exposure to combinations of Oxamyl 310 g/ℓ SL and organophosphorus insecticides, 2-PAM may be used as required to supplement the atropine sulphate treatment. Do not use morphine.

### SECTION 5. FIRE FIGHTING MEASURES

#### Extinguisher media:

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Unsuitable** extinguishing media: Do not use high volume water jet, due to contamination risk.

#### Specific hazards arising from the mixture:

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

#### Advice for fire-fighters:

Avoid inhaling hazardous vapours. Fire fighters should wear positive pressure self-contained breathing apparatus

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(SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

## SECTION 6. ACCIDENTAL RELEASE

### Personal precautions, protective equipment, and emergency procedures:

#### Personal precautions:

**For non-emergency personnel:** Keep all personal away may be fatal by inhalation. Avoid contact with eyes and skin. Do not breathe in spray or fumes. Ventilate area of spill or leak, especially in contained areas. Wear NIOSH/MSHA approved self-contained breathing apparatus

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

#### Protective equipment:

Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

#### Emergency procedures:

Alert firefighting personnel, evacuate unprotected personnel and animals.

#### Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Use a light water spray to reduce vapours.

Prevent entry into drains, watercourses, or confined areas; dike if needed.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

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

#### Methods for containment and cleaning up:

**For small spills** Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth

**For large spills** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

#### Reference to other sections:

see Section 1 for emergency contact information

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Fatal if swallowed. Fatal if inhaled. Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers

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without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas

**Conditions for safe storage, including incompatibilities:**

Keep under lock and key and out of reach of unauthorised persons, children, and animals. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

**Specific end uses:**

Use as directed. Use original container.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters:**

**Acceptable Daily Intake (ADI):** No data available

**Exposure Limits: OSHA PEL**

Components	Threshold Limit Value TLV (TWA) 8 hours
Methanol	200 ppm

**Exposure control:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls:** It is essential to provide adequate ventilation. Provide exhaust ventilation or other engineering controls. Ensure that eyewashstations and safety showers are proximal to the work-station location.

**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.

**Eye/face protection:** Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort wear chemical goggles.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection:** Appropriate impervious clothing is required to prevent skin contact with the product.

**Respiratory protection:** Work only in a well-ventilated area. Respiratory protection is required; a properly fit-tested respirator fitted with organic vapour cartridges is required.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Green or slightly yellow transparent liquid
Odour	Slightly sulphurous
Odour threshold	No data available
pH	No data available
Melting point / freezing point (°C)	Not applicable
Boiling point (°C)	No data available
Flash point (°C)	36 °C
Evaporation rate	No data available
Flammability	Flammable liquid and vapour
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	1.02-1.03
Water solubility (g/l) at 20°C	Soluble
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

**SECTION 10. STABILITY AND REACTIVITY**
**Reactivity:**

None known

**Chemical stability:**

The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

**Possibility of hazardous reactions:**

No information available.

**Conditions to avoid:**

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Heating can release vapours that can be ignited.

**Incompatible materials:**

Incompatible with oxidizing agents.

**Hazardous decomposition products:**

Carbon oxides, nitrogen oxides and hydrochloric acid. Vapours may form explosive mixture with air.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**
**Assessment of acute toxicity:**

The product has not been tested. The data reported is for the main ingredients in the mixture.

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**Oxamyl tech CAS No. 23135-22-0**
**Acute toxicity:**

Acute Oral LD50 (rat - male)	51 mg/kg
Acute Dermal LD50 (rat):	740 mg/kg
Acute Inhalation LC50 - 4 h (rat)	0.5mg/l
Skin irritation/ corrosion (rabbits)	Non irritating to skin
Eye damage / irritation (rabbits)	Non irritating to eyes
Respiratory or skin sensitization	Not a skin sensitiser
Germ cell mutagenicity	No data available
Carcinogenicity	Not classified
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**Methanol 67-56-1**
**Acute toxicity:**

Acute Oral LD50 (rat - male)	5628 mg/kg
Acute Dermal LD50 (rabbit):	15800 mg/kg
Acute Inhalation LC50 - 6 h (rat)	130.7 mg/l air
Skin irritation/ corrosion (rabbits)	No skin irritation
Eye damage / irritation (rabbits)	No eye irritation
Respiratory or skin sensitization (Guinea pig)	Negative
Germ cell mutagenicity: Test Type: Ames Test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative	
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	Causes damage to organs. - Eyes, Central nervous system.
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	Not classified

**Additional Information:**

Acute effects: Headache, dizziness, drowsiness, narcosis, blindness, impairment of vision, irritant effects, nausea, vomiting, agitation, spasms, inebriation, coma. Drying-out effect resulting in rough and chapped skin.

Damage to liver, kidney, cardiac, irreversible damage of the optical nerve.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12. ECOLOGICAL INFORMATION**

Oxamyl tech CAS No. 23135-22-0	
<b>Toxicity</b>	
Birds Acute oral LD <sub>50</sub> LC <sub>50</sub> Dietary (8d)	3.16 mg/kg Female Mallard Ducks; 3.83 mg/kg Male Mallard ducks 340 mg/kg Bobwhite quail; 766 mg/kg Mallard duck
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr) Toxicity to algae – EC <sub>50</sub> (72h ) Bee Toxicity LD <sub>50</sub> (48hr)	4.2 mg/l (rainbow trout); 5.6 mg/l (bluegill sunfish). 0.319 mg/l 3.3 mg/l 0.38 µg/bee (oral); 0.47 µg/bee (contact)
<b>Persistence and degradability</b>	Degraded rapidly in soil, DT50 c. 7 d. DT50 in groundwater (lab. study) 20 d(anaerobic), 20–400 d (aerobic) (J. H. Smelt et al., Pestic. Sci., 1983, 14, 173–181). Koc 25.
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in soil</b>	No data available

Methanol 67-56-1	
<b>Toxicity</b>	
Aquatic Toxicity Fish LC <sub>50</sub> flow through test (96 hr) Aquatic Toxicity Daphnia semi static EC <sub>50</sub> (96 hr) Toxicity to algae – static test ErC50 (96h) Toxicity to bacteria static test IC50 (3h)	15400 mg/l Lepomis macrochirus (Bluegill) 18.260 mg/l - Daphnia magna (Water flea) 22000 mg/l Pseudokirchneriella subcapitata (green algae) >1.000 mg/l
<b>Persistence and degradability</b>	
Biodegradability-aerobic 20days	99 % - Readily biodegradable.
<b>Bioaccumulation potential</b>	
Bioaccumulation 72 days @ 20 °C	5 mg/l (methanol) - Cyprinus carpio (Carp) – Bioconcentration factor (BCF) : 1.0
<b>Mobility in Soil</b>	Will not adsorb on soil
<b>Result of PBT and vPvB assessment</b>	This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Other adverse effects</b>	Avoid release to the environment

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Waste treatment methods:**
**Product:**

Keep out of drains, sewers, ditches, and waterways. Open dumping of this pesticide is prohibited. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

**Container:**

Refer to container label for disposal information. Emptied containers retain vapour and product residues. Do not re-use the empty container for any other purpose. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.



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## SECTION 14. TRANSPORT INFORMATION

UN Number	2991
UN proper shipping name	Carbamate Pesticide, Liquid, Toxic Flammable (Oxamyl)
Transport hazard class	6.1 (3)
Packaging group	II
Marine pollutant	Yes

## SECTION 15. REGULATORY INFORMATION

### Safety, health, and environmental regulations/legislation for the mixture:

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

### Relevant information regarding restrictions:

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

### Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No

## SECTION 16. OTHER INFORMATION

### Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

### Relevant H statements (number and full text):

STOT SE 1 - Specific Target Organ Toxicity single exposure (Category 1)

H370 - Causes damage to organs

H301-Toxic if swallowed

H312-Harmful in contact with skin

H331-Toxic if inhaled

### Training instructions:

Use as indicated on the label, special training may be required for application.

### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.