

Product Name: Sinon Gowel 240 EC Herbicide

Page: 1 of 6

This revision issued: September, 2023

### SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Chemical nature:** Oxyfluorfen is a diphenyl ether derived herbicide

Trade Name: Sinon Gowel 240 EC Herbicide

APVMA Code: 86090

**Product Use:** Agricultural herbicide for use as described on the product label.

Creation Date: August, 2014

**This version issued: September, 2023** and is valid for 5 years from this date.

### **SECTION 2 - HAZARDS IDENTIFICATION**

#### Statement of Hazardous Nature

**SUSMP Classification: S5** 

ADG Classification: Class 9: Miscellaneous Dangerous Goods.

UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.







# **GHS Signal word: DANGER**

Flammable liquids – category 4

Aspiration hazard - category 1

Skin irritation - category 2

Eye irritation - category 2B

Specific target organ toxicity (single exposure) - category 3

Reproductive toxicity - category 1

Hazardous to the aquatic environment (chronic) - category 1

#### **HAZARD STATEMENT:**

H227: Combustible liquid.

AUH066: Repeated exposure may cause skin dryness or cracking.

H305: May be harmful if swallowed and enters airways.

H315: Causes skin irritation.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H360D: May damage the unborn child.

H410: Very toxic to aquatic life with long lasting effects.

# **PREVENTION**

P102: Keep out of reach of children.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P261: Avoid breathing fumes, mists, vapours or spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P271: Use only outdoors or in a well ventilated area.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

### **RESPONSE**

P362: Take off contaminated clothing and wash before reuse.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

### SAFETY DATA SHEET

Issued by: Sinon Australia Pty Ltd

Phone: 03 5441 8907 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)



Product Name: Sinon Gowel 240 EC Herbicide Page: 2 of 6

This revision issued: September, 2023

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: If exposed or concerned: Get medical advice. P332+P313: If skin irritation occurs: Get medical advice. P337+P313: If eye irritation persists: Get medical advice.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

#### **STORAGE**

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

#### **DISPOSAL**

P501: Dispose of contents and containers as specified on the registered label.

### **Emergency Overview**

Physical Description & Colour: Clear, amber liquid.

Odour: Characteristic odour.

**Major Health Hazards:** Oxyfluorfen is not harmful by ingestion, with reported oral LD $_{50}$  values of 5000 mg/kg in both rats and dogs, and 2700 to 5000 mg/kg in mice. It is also not harmful by dermal exposure; the LD $_{50}$  is greater than 5000 mg/kg in both rats and rabbits. It causes no skin irritation in rabbits, no skin sensitization in guinea pigs, and moderate eye irritation in rabbits. may cause harm to unborn children, irritating to eyes, respiratory system and skin, if aspirated, may cause lung damage, repeated exposure may cause skin dryness or cracking, vapours may cause drowsiness and dizziness.

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc,%	TWA (mg/m³)	STEL (mg/m³)
Oxyfluorfen	42874-03-3	240g/L	not set	not set
N-Methyl-2-pyrrolidone	872-50-4	108g/L	103	309
Liquid hydrocarbon	secret	606g/L	790	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### **SECTION 4 - FIRST AID MEASURES**

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. In severe cases, symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

**Skin Contact:** Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

# **SECTION 5 - FIRE FIGHTING MEASURES**

**Fire and Explosion Hazards**: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved

### **SAFETY DATA SHEET**

Issued by: Sinon Australia Pty Ltd Phone: 03 5441 8907 (office hours)



Product Name: Sinon Gowel 240 EC Herbicide Page: 3 of 6

This revision issued: September, 2023

in a fire. Violent steam generation or eruption may occur upon application of direct water stream 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.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog. **Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. **Flammability Class:** Not flammable (GHS); C1 combustible (AS 1940)

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include butyl rubber. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### **SECTION 7 - HANDLING AND STORAGE**

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

#### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure LimitsTWA (mg/m³)STEL (mg/m³)N-Methyl-2-pyrrolidone103309Liquid hydrocarbon790not set

The ADI for Oxyfluorfen is set at 0.025mg/kg/day. The corresponding NOEL is set at 2.5mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2013.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: butyl rubber.

### **SAFETY DATA SHEET**



Product Name: Sinon Gowel 240 EC Herbicide Page: 4 of 6

This revision issued: September, 2023

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:**

Physical Description & colour: Clear, amber liquid. Characteristic odour.

**Boiling Point:** Approx 202°C at 100kPa (NMP)

Flash point: 100°C Upper Flammability Limit: 12% Lower Flammability Limit: 1.3%

**Autoignition temperature:** Approx 350°C

**Freezing/Melting Point:** No specific data. Liquid at normal temperatures. **Volatiles:** No specific data. Expected to be low at 100°C.

Vapour Pressure:No data.Vapour Density:No data.Specific Gravity:1.08 approxWater Solubility:Emulsifiable.

**pH:** 7.2-7.5 (emulsion in water)

Volatility: No data.
Odour Threshold: No data.
Evaporation Rate: No data.
Coeff Oil/water Distribution: No data

Particle Characteristics: Not applicable to liquids.

# **SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** strong acids, strong bases, strong oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen fluoride gas and other compounds of fluorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**Toxicity:** An information profile for Oxyfluorfen is available at http://extoxnet.orst.edu/pips/ghindex.html **Acute toxicity:** Oxyfluorfen is not harmful by ingestion, with reported oral  $LD_{50}$  values of 5000 mg/kg in both rats and dogs, and 2700 to 5000 mg/kg in mice. It is also not harmful by dermal exposure; the  $LD_{50}$  is greater than 5000 mg/kg in both rats and rabbits. It causes no skin irritation in rabbits, no skin sensitization in guinea pigs, and moderate eye irritation in rabbits. However, some formulated products may show severe skin and eye irritant properties, and may be skin sensitizers.

**Chronic toxicity:** Effects on the liver have been observed in long-term feeding studies with rats, mice, and dogs. **Reproductive effects:** It does not appear likely that Oxyfluorfen will cause reproductive effects in humans at likely levels of exposure.

**Teratogenic effects:** In a developmental study with rabbits, 30 mg/kg/day, the highest dose tested, produced an increase in fused sternal bones in the foetuses as well as toxic effects on the mothers. These data suggest Oxyfluorfen may have teratogenic effects, but only at very high doses.

**Mutagenic effects:** Mutagenicity tests on rats, mice and on bacterial cell cultures have produced mixed results. Due to the conflicting results, it is not possible to determine the mutagenic potential of Oxyfluorfen.

Carcinogenic effects: The data suggests that Oxyfluorfen is not carcinogenic.

**Organ toxicity:** The liver appears to be the main target organ, based on long-term feeding studies. **Fate in humans and animals:** Because Oxyfluorfen is highly hydrophobic, it may have the potential to bioconcentrate in animal fatty tissues.

#### **SAFETY DATA SHEET**

Issued by: Sinon Australia Pty Ltd Phone: 03 5441 8907 (office hours)



Product Name: Sinon Gowel 240 EC Herbicide Page: 5 of 6

This revision issued: September, 2023

There is no data to hand indicating any particular target organs.

N-methyl-2-pyrrolidone is a SWA Class 2 Reproductive risk, may cause harm to the unborn child.

### **Classification of Hazardous Ingredients**

### Ingredient

N-methyl-2-pyrrolidone

Health Hazard Statement Codes H319, H315, H335, H360D

- Eye irritation category 2A
- Skin irritation category 2
- Specific target organ toxicity (single exposure) category 3
- Reproductive toxicity category 1B

### **Potential Health Effects**

### Inhalation:

**Short Term Exposure:** High vapour pressures may cause drowsiness and dizziness. In addition product is an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident, but they should disappear after exposure has ceased.

Long Term Exposure: Vapours may cause drowsiness and dizziness.

#### **Skin Contact:**

**Short Term Exposure:** Available data indicates that this product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: Repeated exposure may cause skin dryness or cracking.

# **Eye Contact:**

**Short Term Exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

### Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term ingestion.

#### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

## **SECTION 12 - ECOLOGICAL INFORMATION**

This product is very toxic to aquatic organisms. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

**Effects on birds:** Oxyfluorfen is practically nontoxic to birds; the reported oral LD<sub>50</sub> values are greater than 2200 mg/kg in bobwhite quail, and greater than 4000 mg/kg in mallard duck.

**Effects on aquatic organisms:** Oxyfluorfen is highly toxic to aquatic invertebrates, freshwater clams, oysters, aquatic plants, and fish. Studies indicate a low to moderate potential for bioaccumulation in aquatic species. **Effects on other organisms:** Oxyfluorfen is nontoxic to honeybees, with a reported oral LC<sub>50</sub> of greater than 10,000 ppm.

#### **Environmental Fate:**

**Breakdown in soil and groundwater:** Oxyfluorfen is moderately persistent in most soil environments, with a representative field half-life of about 30 to 40 days. Oxyfluorfen is not subject to microbial degradation or hydrolysis. The main mechanism of degradation in soils may be photodegradation and evaporation/codistillation in moist soils.

#### **SAFETY DATA SHEET**

Issued by: Sinon Australia Pty Ltd Phone: 03 5441 8907 (office hours)



Product Name: Sinon Gowel 240 EC Herbicide Page: 6 of 6

This revision issued: September, 2023

**Breakdown in water:** In water, Oxyfluorfen is rapidly decomposed by light. Because Oxyfluorfen is nearly insoluble in water and has a tendency to adsorb to soil, it will be sorbed to suspended particles or sediments.

**Breakdown in vegetation:** There is very little movement of Oxyfluorfen within treated plants. It is not readily metabolized by plants, but since it is not readily taken up by roots, residues in plants are generally very low. Residues of Oxyfluorfen accumulated in carrots and oats grown on previously treated fields, but not in cotton or lettuce.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

# **SECTION 14 - TRANSPORT INFORMATION**

Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Sea transport (see details below).

UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazchem Code: •3Z

**Special Provisions:** 179, 274, 331, 335, AU01

Limited quantities: ADG 7 specifies a Limited Quantity value of 5 L for this class of product.

Dangerous Goods Class: Class 9: Miscellaneous Dangerous Goods.

Packing Group: III

Packing Instruction: P001, IBC03, LP01

Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight

container with Dangerous Goods of Class 1 (Explosives).

#### SECTION 15 - REGULATORY INFORMATION

**AllC:** All of the significant ingredients in this formulation are compliant with AlCIS regulations. The following ingredients: N-Methyl-2-pyrrolidone, Liquid hydrocarbon, are mentioned in the SUSMP.

# **SECTION 16 - OTHER INFORMATION**

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition)

AIIC Australian Inventory of Industrial Chemicals
SWA Safe Work Australia, formerly ASCC and NOHSC
CAS number Chemical Abstracts Service Registry Number

Hazchem Code Emergency action code of numbers and letters that provide information to emergency

services especially firefighters

IARC International Agency for Research on Cancer

NOS Not otherwise specified

NTP National Toxicology Program (USA)

**SUSMP** Standard for the Uniform Scheduling of Medicines & Poisons

UN Number United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS 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.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and GHS Revision 7

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