

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Chemical NameMixtureTrade NamesAndiamo™ 230CAS No.Mixture

EPA Identification Number EPA Reg. No. 35915-20

Relevant identified uses of the substance or mixture and uses advised against Identified Use(s)

Fungicide

Uses Advised Against It is a violation of Federal law to use this product in a manner inconsistent

with its labeling.

Details of the supplier of the safety data sheet

Company Identification Oxon Italia S.p.A.

2525 Meridian Parkway, Suite 350

Durham, NC 27713 United States of America

Telephone (919) 226-1195

**Emergency telephone number** 

Emergency Phone No. CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls

accepted)

## **SECTION 2: HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Not classified as dangerous for supply/use.

## Label elements

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS) and for workplace labels of non pesticide chemicals. The labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol None
Hazard Statement(s) None

Precautionary Statement(s) IF SWALLOWED: Rinse mouth. Treat symptomatically.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If irritation develops and persists, get medical attention.

IF ON SKIN: Wash with plenty of soap and water. If symptoms develop, obtain medical attention. Treat symptomatically.

Keep out of reach of children.

Other hazards Harmful to aquatic life with long lasting effects.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Tetraconazole	20.5	112281-77-3	Acute Tox. 4; H302, H332
			Aquatic Chronic 2: H411

Additional Information - None.

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## **SECTION 4: FIRST AID MEASURES**



### Description of first aid measures

Inhalation Not normally required. Move person to fresh air. If breathing is

laboured, administer oxygen. If symptoms develop, obtain medical

attention.

Skin Contact Wash affected skin with soap and water. If symptoms develop, obtain

medical attention. Treat symptomatically.

Eye Contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If irritation develops

and persists, get medical attention.

Ingestion Rinse mouth. Treat symptomatically.

Most important symptoms and effects, both acute and

delayed

None known.

Indication of any immediate medical attention and

special treatment needed

None known.

## **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

-Suitable Extinguishing Media Non-combustible. As appropriate for surrounding fire.

-Unsuitable Extinguishing Media None known.

Special hazards arising from the substance or

mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Decontaminate equipment or materials used in pesticide

fires.

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing

should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and

emergency procedures

Wear protective gloves/eye protection.

**Environmental precautions** Prevent substance entering sewers.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Collect spillage. Wash the spillage area with

water. If possible prevent water running into sewers.

Reference to other sections None
Additional Information None

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Avoid contact with skin and eyes. When using do not eat, drink or

smoke.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at room temperature.

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-Incompatible materials Strong oxidising agents.

Specific end use(s) Herbicide

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Occupational Exposure Limits**

		(8hr TWA)		STEL		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
None						

Recommended monitoring method None

**Exposure controls** 

Appropriate engineering controls Do NOT aerosolize or atomize to produce inhalable-size particles.

Use low-pressure course spray only.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).

**ED**-

Skin protection (Hand protection/ Other) Wear protective gloves. (Nitrile rubber, PVC, Natural rubber)





Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards Not normally required.

Environmental Exposure Controls None known

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

## Information on basic physical and chemical properties

Appearance Liquid

Color. Light clear yellow/slightly yellow

Odor Not available
Odor Threshold (ppm) Not available
pH (Value) 5.35 @ 25°C

Melting Point/Freezing Point C) Not available Boiling point/boiling range (°C) Not available Flash Point (°C) Not flammable **Evaporation Rate** Not available Flammability (solid, gas) Not applicable **Explosive Limit Ranges** Not applicable Vapour Pressure (Torr) Not available Vapour Density (Air=1) Not available Density (g/ml) Not available

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Specific Gravity

1.1187 @ 20 °C
Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Not available

Not available

 $\begin{array}{ll} \text{Auto Ignition Point (°C)} & \text{Not available} \\ \text{Decomposition Temperature (°C)} & \text{Not available} \end{array}$ 

Kinematic Viscosity (cSt) 463.2 cSt @ 20°C; 201.92 cSt @ 40°C

Explosive properties Not explosive Oxidizing properties Not oxidising

Other information Not available

## **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

**Conditions to avoid**Avoid contact with heat and ignition sources.

Incompatible materials

None known
Hazardous decomposition product(s)

None known

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Skin Contact, Eye Contact

Information on toxicological effects

Tetraconazole (CAS# 112281-77-3):

Acute toxicity (calculated / estimated) Oral LD50: 1031 - 1248 mg/kg-bw (rat)

Dermal LD50: >2000 mg/kg-bw (rabbit) Inhalation LC50: > 3.66 mg/L (4 hr) (rat)

Irritation/Corrosivity Unlikely to cause skin irritation. May cause eye irritation.

Sensitization Not to be expected.

Repeated dose toxicity Not to be expected. NOAEL (90 day) = 4.1 mg/kg (rat)

Carcinogenicity Not to be expected.

NTP	IARC	ACGIH	OSHA
No	No	No	No

Mutagenicity Not to be expected.

Reproductive toxicity Not to be expected.

## **SECTION 12: ECOLOGICAL INFORMATION**

Tetraconazole (CAS# 112281-77-3):

**Ecotoxicity** 

Short term LC50 (96 hour): 4.3 - 4.8 mg/L(fish)

EC50 (48 hour): 3 mg/L (Daphnia magna)

EC50 (72 hour): 0.41 mg/l (scenedesmus subspicatus)

Long Term Toxic to aquatic life with long lasting effects.

Persistence and degradability Persistent
Bioaccumulative potential No data

Mobility in soil The product has moderate mobility in soil.

Results of PBT and vPvB assessment No data
Other adverse effects None known.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal should be in accordance with local, state or national legislation.

Consult an accredited waste disposal contractor or the local authority for

advice.

Additional Information None known.

## **SECTION 14: TRANSPORT INFORMATION**

Land transport Sea (U.S. DOT)

Sea transport Air transport (IMDG) (ICAO/IATA)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing group
Environmental hazards
Special precautions for user

Not classified as dangerous for transport.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

#### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

## EPA FIFRA Information for SDS Section 15 (Regulatory Information):

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

**CAUTION:** Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mills, polyvinyl chloride (PVC) ≥14 mils, and viton ≥14 mills.

#### Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- · Shoes plus socks
- · Chemical-resistant gloves as indicated above.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## **Engineering Controls:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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#### **ENVIRONMENTAL HAZARDS**

This product may be toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms adjacent to treatment areas. Exercise caution when making applications of this product, and do not apply when atmospheric conditions favor drift or runoff. Do not contaminate water when disposing of equipment washwater or rinsate. In order to mitigate concern for reproductive effects to endangered bird and mammal species which may occur incidentally in sugarbeet growing areas, you are required to ascertain through the state Department of Agriculture, or Cooperative Extension Service, whether the treatment area may contain habitat of federally listed bird and mammal species; if so, treatment must be avoided in these areas.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow to come into contact with oxidizing agents. Do not allow the ratio of water:product in the field to exceed 1:1. A hazardous chemical reaction may occur.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

	Chemical Name	CAS No	o. Typical %wt.	RQ (Pou	ınds)		
	None						
SA	SARA 311/312 - Hazard Categories: None						
	☐ Fire ☐ Sudden Releas	e 🔲 Reacti	vity	cute)	ed)		
SA	SARA 313 - Toxic Chemicals (40 CFR 372):						
	Chemical Name	CAS No.	Typical %wt.				
	None						
SARA 302 - Extremely Hazardous Substances(40 CFR 355):							
	Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)		
	None						

## Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None			

## **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1 - 16.

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Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- -H302: Harmful if swallowed.
- -H315: Causes skin irritation.
- -H319: Causes serious eye irritation.
- -H331: Toxic if inhaled.
- H332: Harmful if inhaled.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

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