

SAFETY DATA SHEET

Date: July 7, 2016
SerialNo.:AGG10026C1_03

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **Tachigaren 30L**

USE OF PRODUCT Fungicide
SYNONYMS: TACHIGAREN 30L, Tachigaren 30SL,
Tachigaren 30%L, Tachigaren 30% w/w liquid,
Tachigaren 360, Tachigaren 36, Tachigaren 36 SL,
Tachigaren 36% LS, TACHIGAREN36%SL,
Hymexazol 30L, Hymexazol 30SL,
Hymexazol 30%L, Hymexazol 30%SL
Hymexazol 30% w/w liquid
TACHIGAREN, TACHIGAREN SL,

COMPANY IDENTIFICATION

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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Acute toxicity	
Oral	Not classified
Dermal	Not classified
Skin irritation	Not classified
Eye damage/irritation	Not classified
Skin sensitization	Not classified
Aquatic hazard	
Acute	Not classified
Chronic	Category 2

GHS LABEL ELEMENTS

Hazard Pictogram



Signal Word

Not applicable

Hazard Statement

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P273: Avoid release to the environment.

Response

P391: Collect spillage.

Disposal

P501: Dispose of contents or container in accordance with local, regional, national and international regulations.

OTHER HAZARDS

Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	% w/w	(w/v)	CAS No.
Hymexazol (*)	30	(360g/ L)	10004-44-1
Inert ingredients	70	(—)	-

* 5-methylisoxazol-3-ol

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

INGESTION

Rinse mouth with water. Get medical attention immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person.

INHALATION

If you feel unwell, move to fresh air immediately. Get medical attention if cough or other symptoms develop. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT

Immediately remove contaminated clothing and shoes. Flush skin and clean off with large amounts of water. Get medical attention if symptoms develop.

EYE CONTACT

Immediately flush eyes with plenty of water. Part eyelids with fingers to assure complete flushing. Check for and remove contact lenses if easily possible. Get medical attention if irritation persists.

5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Foam, dry chemical, CO₂, water, sand.

GENERAL HAZARD

Tachigaren 30L is a water-based formulation and is NOT flammable.

No unusual fire or explosion hazard for normal industrial or commercial handling.

HAZARDOUS COMBUSTION PRODUCTS

Nitrogen oxides.

FIREFIGHTING INSTRUCTIONS

Keep unnecessary and unprotected personnel away. Shut off supply if possible. Remove containers to safe place if possible. Keep containers and surroundings cool by spraying with water. Fight fire from an upwind position.

FIREFIGHTING EQUIPMENT

Respiratory and eye protection is required for firefighting personnel.

Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES

Warn and evacuate in the neighborhood as necessary. Keep unnecessary and unprotected personnel away. Wear appropriate personal protective equipment as specified in Section 8. Remove all sources of ignition. Stop leak if possible without personal risk.

ENVIRONMENTAL PRECAUTIONS

Do not let this product enter the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb or cover the spilled product with dry earth, sand or other non-combustible material and transfer to sealable containers. Large spills: Dike far ahead of liquid spill for later disposal.

7. HANDLING AND STORAGE**HANDLING****Technical Measures**

Use only with adequate ventilation.

Where there may be potential of fire or explosion hazard, use explosion-proof electrical equipment and take precautions against build-up of electrostatic charges.

Wear appropriate personal protective equipment. Keep away from heat, sparks, open flames and hot surfaces.

Precautions

Handle with care. Do not breathe mist. Avoid contact with eyes, skin and clothing. Take precautionary measures against static discharge.

Advice on general occupational hygiene

Provide hand and eye wash station near work area. Wash hands thoroughly after use. Take off contaminated protective equipment before entering rest areas. Do not eat, drink or smoke when using this product.

STORAGE**Storage Conditions**

Keep away from heat, flame and all sources of ignition. Store in a cool, dark and well-ventilated area. Keep container tightly closed and sealed until ready for use. Do not contaminate other pesticides, fertilizers, water, foodstuffs or feed by storage and disposal.

Packaging Materials

Metal or plastic container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**OCCUPATIONAL EXPOSURE LIMIT VALUES**

Not established for this product.

ENGINEERING CONTROLS

Provide general ventilation. Using closed system or local exhaust ventilation is recommended. Provide safety shower and eye wash station near work area.

PERSONAL PROTECTION

Eye/face protection:	Safety glasses, goggles, face shield.
Skin Protection:	
Hand protection:	Chemical resistant impermeability gloves.
Body Protection:	Safety helmet, protective clothing, safety boots.
Respiratory protection:	Chemical cartridge respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Bright yellow clear liquid.
Odor:	Odorless.
pH (1%sol., 23°C):	7.30
Boiling point:	Not available.
Flash point:	No flash was observed up to 60°C.
Flammability:	Not flammable.

Vapour pressure:	Not available.
Relative density (20°C):	1.20.
Auto-ignition temperature:	154°C
Viscosity:	4.2 cps (20°C), 2.9 cps (40°C)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable under normal conditions.

HAZARDOUS REACTIONS

No hazardous reaction when handled and stored according to provisions.

CONDITIONS TO AVOID

Not available.

INCOMPATIBLE MATERIALS

Strong alkali, strong acid, strong oxidizing/reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrogen oxides, sulfur oxides, halogenated compounds.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral	Rat (male)	LD ₅₀	4883 mg/kg	
	Rat (female)	LD ₅₀	4288 mg/kg	[Not classified]
Dermal	Rat	LD ₅₀	>5000 mg/kg	[Not classified]
Inhalation	Rat	LC ₅₀	>4.68 mg/L/4hr	[Classification not possible]

Skin Corrosion/Irritation

Rabbit	Mild Irritant	[Not classified]
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Serious Eye Damage/Irritation

Rabbit	Mild irritant	[Not classified]
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Respiratory Sensitization

Not available. [Classification not possible]

Skin Sensitization

Guinea pig	Not a skin sensitizer.	[Not classified]
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Germ Cell Mutagenicity

Not available. [Classification not possible]

Carcinogenicity

Not available. [Classification not possible]

Reproductive Toxicity

Not available. [Classification not possible]

Specific Target Organ Toxicity

Single Exposure:	Not available.	[Classification not possible]
Repeated Exposure:	Not available.	[Classification not possible]

Aspiration Hazard

Not available. [Classification not possible]

12. ECOLOGICAL INFORMATION

HAZARDOUS TO THE AQUATIC ENVIRONMENT

Acute: Ecotoxicity data do not meet the criteria for classification.
 Chronic: Contains Hymexazol. (Category 2)

[Not classified]
 [Category 2]

ECOTOXICITY

Carp	LC ₅₀ (96hr)	>1000 mg/L
<i>Daphnia magna</i>	EC ₅₀ (48hr)	160 mg/L
Algae	ErC ₅₀ (0-72hr)	960 mg/L

[Hymexazol]

<i>Daphnia magna</i>	EC ₅₀ (48hr)	28 mg/L
	NOEC(21 days)	0.8 mg/L

BIOACCUMULATIVE POTENTIAL

Tachigaren 30L contains 30% active substance, Hymexazol, which showed no measurable tendency to bioaccumulate in the tissues of *Cyprinus carpio* exposed to substances for 8 weeks under flow-through conditions.

HAZARDOUS TO THE OZONE LAYER

This product does not contain $\geq 0.1\%$ of at least one ingredient listed in the Annexes to the Montreal Protocol.
 [Classification not possible]

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES

Waste must be disposed of in accordance with federal, state, local, national and international regulations.

CONTAMINATED PACKAGING

Empty the container completely before disposal.

14. TRANSPORT INFORMATION

UN

Hazard Class:	9
UN Number:	UN3082
Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Hymexazol mixture)
Packing Group:	III
Marine Pollutant:	Yes

SPECIAL PRECAUTIONS FOR TRANSPORT

Make sure that the containers have no puncture or leakage. Avoid rough handling and dropping. Prevent collapse of cargo piles.

15. REGULATORY INFORMATION

This product is a pesticide.

Responsibility for compliance with applicable laws and regulations is with the user.

16. OTHER INFORMATION

References: In-house data

To the best of our knowledge, the information contained herein is accurate.

However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.