

Preparation Date 14-Sep-2014

Revision Date 19-Apr-2017

Revision Number 03

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description Thiamethoxm 25% WG

Other means of Identification

UN-No Not Regulated

Recommended use of the chemical and restriction on use

Recommended use Insecticide

Uses advised against Activities contrary to label recommendations

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL Limited
Uniphos House, Madhu Park,
Khar (W), Mumbai, India
Tel: +91-(022)- 2646-8000

E-mail address info.in@uniphos.com

Emergency Telephone Number

Company Phone Number +91-(022)- 2646-8000
Emergency telephone number +91-(022)- 2646-8000 (From 9:00 A.M. to 5:00 P.M.)

2. Hazard Identification

Classification

Eye Damage/Irritation	Category 2B - (H320)
STOT - Single Exposure	Category 3 - (H336)
Aquatic Acute Toxicity	Category 1 - (H400)
Aquatic Chronic Toxicity	Category 1 - (H410)

Label elements

**Signal word****Warning**

Hazard Statements

H332 - Harmful if inhaled
H320 - Causes eye irritation
H336 - May cause drowsiness or dizziness

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H410 - Very toxic to aquatic life with long lasting effects.**Precautionary Statements****Prevention****P261** Avoid breathing dust/fume/gas/mist/vapours/spray.**P271** Use only outdoors or in a well-ventilated area.**P273** Avoid release to the environment.**Response****P304+P340** IF INHALED: Remove person from fresh air and keep comfortable for breathing.**P312** Call a POISON CENTER/doctor or physician if you feel unwell.**P391** Collect spillage.**Storage****P403+P233** Store in a well-ventilated place. Keep container tightly closed.**Prevention****P501** Dispose of contents/container to an approved waste disposal plant**Other Information**

No other hazards known.

3. Composition/information on Ingredients

Chemical name	CAS-No	W/W %
Thiamethoxam	153719-23-4	25

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures**First-aid measures****Eye contact**

Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

Skin contact

Remove contaminated clothing and shoes immediately, then wash with plenty of water. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned. Seek medical attention.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. Get medical attention.

Inhalation

IF INHALED: Immediately remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. Seek medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed**Most Important Symptoms and Effects**

The most important known symptoms and effects are described in the labelling (See section 2) and/or in section 11.

Indication of immediate medical attention and special treatment needed**Notes to physician**

Treat symptomatically and supportively.

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5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide**Unsuitable extinguishing media** High pressure water jets may scatter spilled material**Special hazards arising from the substance or mixture****Special Hazard** Thermal decomposition can lead to release of irritating or toxic fumes (or gases) in fire.**Hazardous combustion products** Oxides of carbon, Nitrogen oxides, Sulphur and chloride compounds**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective suit. Use standard firefighting procedures and consider the hazards of involved material.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****Personal Precautions** Avoid dust/mist formation. Do not eat, drink or smoke while using this product. Avoid contact with skin and eyes. Avoid breathing dust/mist. Keep unnecessary people away. Isolate area. Keep out of low areas.**Environmental precautions** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.**Methods and material for containment and cleaning up****Methods for Clean-Up** Pick and arrange disposal without creating dust. Sweep up and shovel into suitable container for disposal. Follow all label instructions regarding spill clean-up and residual disposal methods.**Reference to other sections** Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.**7. Handling and Storage****Precautions for safe handling****Handling** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust/mist. Ensure adequate ventilation. Wash thoroughly after handling. Avoid release to environment. Empty containers may contain hazardous residues. Do not reuse empty container.**Conditions for safe storage, including any incompatibilities****Storage** Store in accordance with local regulation. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible material. Do not store in unlabeled containers. Do not store material near food, feed or drinking water.**Incompatible materials** Avoid strong alkalis**8. Exposure Controls/Personal Protection**

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Exposure Guideline	Apply technical measures to comply with the occupational exposure limit.
Engineering controls	Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<u>Personal protective equipment</u>	
Eye/Face Protection	Avoid contact with eyes. Where there is potential for eye contact have eye flushing equipment available. Tightly fitting safety goggles. Face-shield.
Skin/Hand protection	Wear protective gloves/clothing. Long-sleeved clothing
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental exposure controls	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Local authorities should be advised if significant spillage cannot be contained.

General hygiene considerations

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Brown colored granule's
Physical state	Solid
Odor	Non-characteristic
Color	Brown
Odor threshold	No information available.

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	Not applicable	
Flammability (solid, gas)	Non-flammable	
Upper/lower flammability or	No information available	
Explosive limit	No information available	
Density	0.58 ± 0.01 g/mL	Pour/Tap density
Vapor density	No information available	
Vapor pressure	No information available	
Water solubility	Miscible with water	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Dust Content	No information available	
Viscosity	No information available	
Oxidizing properties	Non-oxidizing	
Explosive properties	No information available	
Surface Tension	No information available	

10. Stability and Reactivity

Reactivity

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No reactivity hazards are known

Chemical stability

Stable under normal temperature and conditions.

Possibility of hazardous reaction

None under normal processing.

Conditions to avoid

Avoid heat, flames and spark.

Incompatible Materials

Avoid strong alkalis

Hazardous decomposition products

Thermal decomposition can lead to release of irritating or toxic fumes (or gases) in fire.

Thermal hazardous decomposition products: Oxides of carbon, nitrogen, Sulphur and chloride compounds

11. Toxicological Information**Information on Toxicological Effects**

LD50 Oral = >2000 mg/kg

LD50 Dermal = >2000 mg/kg

LC50 Inhalation = >1.05 mg/L (Maximum achievable breathing zone concentration - No mortality)

Local effect

Inhalation	May cause respiratory tract irritation.
Eye contact	Causes eye irritation
Skin contact	Non-irritant
Ingestion	Based on available data, classification criteria are not met.

Chronic toxicity

Skin corrosion/Irritation	Non-irritant
Eye damage/Irritation	Causes eye irritation
Sensitization	Based on available data, classification criteria are not met.
Mutagenic effects	Based on available data, classification criteria are not met.
Carcinogenic effects	Based on available data, classification criteria are not met.
Reproductive effects	Based on available data, classification criteria are not met.
STOT - Single Exposure	May cause drowsiness or dizziness
STOT - repeated exposure	No information available
Aspiration hazard	No information available

12. Ecological Information**Ecotoxicity**

Fish/LC50/96hr = >100 mg/l (Danio rerio)

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Daphnia/EC50/48hr = >10 mg/l - <100mg/L

Alga/EC50/72hr = >100 mg/ml (Pseudokirchneriella subcapitata)

Persistence and Degradability

No information available.

Bioaccumulative Potential

No information available.

Chemical Name	Log P
Thiamethoxam	-0.13

Other Adverse Effects

No information available.

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method

Dispose of in accordance with applicable Federal, State, local laws and regulations.

Contaminated packaging

Empty container should be taken for local recycling, recovery or waste disposal. Do not re-use container. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

IMDG/IMO

UN-No	UN 3077
Proper Shipping name	Environmentally hazardous substances, solid, n.o.s.(Thiamethoxam)
Hazard class	9
Packing group	III
EMS-No	F-A,S-F
Environmental Hazard	Marine pollutant

IATA/ICAO

UN-No	UN 3077
Proper Shipping name	Environmentally hazardous substances, solid, n.o.s.(Thiamethoxam)
Hazard class	9
Packing group	III
Environmental Hazard	Yes

15. Regulatory Information

International Inventories

(Thiamethoxam: CAS 153719-23-4)

USINV	Complies
TSCA	-
EINECS/ELINCS	Complies
DSL/NDSL	-
PICCS	-
ENCS	-
China	Complies

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- : Not listed/Determines

-

Complies

Legend**USINV** - Total TSCA/FIFRA Inventory**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**AICS** - Australian Inventory of Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**16. Other Information****Preparation date**

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End of Safety Data Sheet