

SAFETY DATA SHEET
AGRICHEM FLOWABLE THIRAM



Compilation date: 11/04/2017

Revision No: 3

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: Agrichem Flowable Thiram

Product code:

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Contains: Tetramethylthiuram disulphide. For use in pesticide formulations.

1.3. Details of the supplier of the safety data sheet**Company name:**

Agrichem (International) Limited,
Industrial Estate, Station Road, Whittlesey,
Cambs. PE7 2EY, United Kingdom

Tel: 01733-204019

Fax: 01733-204162

Email: admin@agrichem.co.uk**1.4. Emergency telephone number**

Emergency tel: 01733-204019

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Acute Tox. 4: H332; Eye Irrit. 2: H319; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373

Most important adverse effects: Harmful by inhalation and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements**Label elements under CLP:****Hazard statements:**

H332:	Harmful if inhaled.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H319:	Causes serious eye irritation.
H373:	May cause damage to organs through prolonged or repeated exposure.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.

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Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental



Precautionary statements:

P260: Do not breathe mist/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove Contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/container to a licenced waste disposal contractor or collection site except for triple rinsed containers which can be disposed of as non-hazardous waste.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

TETRAMETHYLTHIURAMDISULPHIDE - REACH registered number(s): 01-21194992301-45

EINECS	CAS	CLP Classification	Percent
205-286-2	137-26-8	Skin Irrit. 2: H315; STOT RE 2: H373; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317; Eye Irrit. 2: H319; Acute Tox. 4: H332; Acute Tox. 4: H302; -: EUH401	50-70%

ETHYLENE GLYCOL

203-473-3	107-21-1	Acute Tox. 4: H302	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

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- Ingestion:** Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Alcohol intolerance (Antabuse syndrome) may result from adsorption.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. In the unlikely event that this substance is inhaled (e.g. aspiration) then treat symptomatically and seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and pain.
- Ingestion:** There may be soreness and redness of the mouth and throat.
- Inhalation:** There may be a feeling of tightness in the chest with shortness of breath.

4.3. Indication of any immediate medical attention and special treatment needed: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water. Carbon dioxide. Alcohol or polymer foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Wash the spillage site with large amounts of water. Wash the ground with an appropriate self-emulsifying solvent.

6.4. Reference to other sections:

No data available

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in cool, well ventilated area.

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Suitable packaging: Aluminium containers. Stainless steel. Polyethylene.

7.3. Specific end use(s):

No data available

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

TETRAMETHYLTHIURAMDISULPHIDE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.05 mg/m ³	-	-	-

ETHYLENE GLYCOL

UK	52 mg/m ³ (vapour)	104 mg/m ³ (vapour)	-	-
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DNEL/PNEC Values

DNEL / PNEC

No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	White
Odour:	Barely perceptible odour
Solubility in water:	Miscible
Viscosity:	Non-viscous
Boiling point/range °C:	100
Melting point/range °C:	0
Relative density:	1.18 - 1.20
pH:	8.00 – 10.00

9.2. Other information:

No data available

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Section 10: Stability and reactivity**10.1. Reactivity**

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong bases. Oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

Section 11: Toxicological information**11.1. Information on toxicological effects**

Hazardous ingredients:

ETHYLENE GLYCOL

IVN	RAT	LD50	3260	mg/kg
ORL	MUS	LD50	5500	mg/kg
ORL	RAT	LD50	4700	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH ING	Hazardous: calculated
Irritation	OPT DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated
Repeated dose toxicity	ING	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

No data available.

12.2. Persistence and degradability

Persistence and degradability:

No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential:

No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects:

No data available.

Section 13: Disposal considerations

13.1. Waste treatment method

Disposal of packaging: Incinerate residues only in officially approved incinerator. Dispose of empty containers only on dumps designated for special waste or at an incineration plant for industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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Section 14: Transport information**14.1. UN number**

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TETRAMETHYLTHIURAM DISULPHIDE)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user**Section 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

15.2. Chemical Safety Assessment: A chemical safety assessment was not carried out for this product.

Section 16: Other information**Other information**

Other information: For use in pesticide formulations.

Phrases used in s.2 and s.3:

EUH208: Contains thiram, nipacide and preservative 1. May produce an allergic skin reaction.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

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

R20/22: Harmful by inhalation and if swallowed.

R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin