

# Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 09/03/2015 Revision date: 09/03/2015 : Version: 2.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name : Twenty One

Type of product : Insecticide, Powders

Product group : Biocide

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

#### 1.2.1. Relevant identified uses

Main use category : For professional use only Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Belgagri Rue des Tuiliers, 1 4480 Engis - Belgique

T +32 (0)85 519 519 - F +32 (0)85 519 510 belgagri@belgagri.com - www.belgagri.com

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Sens. 1 H317
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R20/22 R43 N; R50/53

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if inhaled. May cause an allergic skin reaction. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





Signal word (CLP) : Warning

Hazardous ingredients : Azamethiphos tech.

Hazard statements (CLP) : H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P261 - Avoid breathing fume, dust

P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection

P302+P352 - IF ON SKIN: Wash with plenty of water

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER, a doctor if you feel unwell

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, an authorised waste collection point

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Azamethiphos tech.	(CAS No) 35575-96-3 (EC no) 252-626-0	10	T; R23 Xn; R22 R43 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Azamethiphos tech.	(CAS No) 35575-96-3 (EC no) 252-626-0	10	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)

Full text of R- and H-phrases: see section 16

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Take off contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth. Call a poison center or

a doctor if you feel unwell. Do NOT induce vomiting.

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

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Exercise caution when fighting any chemical fire.

Other information : Do not dispose of fire-fighting water in the environment. Cool down the containers exposed to

heat with a water spray.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Spill should be handled by trained cleaning personnel properly equipped with respiratory and

eye protection. Equip rescue crew with proper protection. Equip cleanup crew with proper

protection. In case of inadequate ventilation wear respiratory protection.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Recover mechanically the product. Small quantities of liquid spill: take up in non-combustible

absorbent material and shovel into container for disposal.

Other information : Cleaning residues containing this material may be classified hazardous waste. Dispose of

materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Additional hazards when processed : Handle in accordance with good industrial hygiene and safety procedures.

Precautions for safe handling : Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume.

Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from sources of ignition - No smoking. Prevent the build-up of electrostatic charge. Do not eat, drink or smoke when using this product. Do not manipulate the product in a confined space.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Either local exhaust or general room ventilation is usually required.

Storage conditions : Store in a well-ventilated place. Keep cool. Store in original container. Keep away from food,

drink and animal feeding stuffs.

Maximum storage period :  $\approx 2$  year

Storage area : Floors should be impervious, resistant to liquids and easy to clean. Store in a well-ventilated

place.

# 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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Personal protective equipment : Skin protection appropriate to the conditions of use should be provided.

Hand protection : protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Do not eat, drink or smoke during use.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: Powder.Colour: white.

Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : 350 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Non flammable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : 0,6

Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Stable under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

To our knowledge, the product does not present any particular risk, under normal conditions of use.

### 10.4. Conditions to avoid

Moisture.

#### 10.5. Incompatible materials

alkalis.

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

ATE CLP (dust,mist)	5,000 mg/l/4h
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Azamethiphos tech. (35575-96-3)		
LD50 oral rat	500 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	0,5 - 1 mg/l/4h	
Chin compaine/imitation	. Not also ifind	

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Azamethiphos tech. (35575-96-3)		
NOAEL (chronic, oral, animal/male, 2 years)	0,5 mg/kg bodyweight	
NOAEL (chronic, oral, animal/female, 2 years)	0,5 mg/kg bodyweight	
Reproductive toxicity	: Not classified	

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Azamethiphos tech. (35575-96-3)		
LC50 fishes 1	0,19 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 Daphnia 1	0,33 µg/l	
ErC50 (algae)	74 mg/l	
NOEC chronic crustacea	0,00012 mg/l	

#### 12.2. Persistence and degradability

Azamethiphos tech. (35575-96-3)	
Persistence and degradability	Not biodegradable.
Biodegradation	17 %

# 12.3. Bioaccumulative potential

Azamethiphos tech. (35575-96-3)		
Bioconcentration factor (BCF REACH)	< 2000	
Log Pow	1 at 20 °C	
Bioaccumulative potential	Not established.	

#### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.

Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity. Relevant water authorities

should be notified of any large spillage to water course or drain.

#### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

 UN-No. (ADR)
 : 3077

 UN-No. (IMDG)
 : 3077

 UN-No.(IATA)
 : 3077

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UN-No.(ADN) : 3077 UN-No. (RID) : 3077

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description (ADR)

: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)

: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

#### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



#### **IMDG**

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



# IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



# ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



#### RID

Transport hazard class(es) (RID) : 9
Danger labels (RID) : 9



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**Packing group** 

Packing group (ADR) : 111 Packing group (IMDG) : III Packing group (IATA) : 111 : 111 Packing group (ADN) : III Packing group (RID)

**Environmental hazards** 

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : Avoid release to the environment, Clean up even minor leaks or spills, if possible, without

unnecessary risk

#### 14.6. Special precautions for user

#### **Overland transport** 14.6.1.

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3 Mixed packing provisions (ADR) : MP10 Portable tank and bulk container instructions : T1, BK1, BK2

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP33

90

: 2Z

: 5 kg

: SGAV, LGBV Tank code (ADR)

Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages : V13

(ADR)

EAC code

Special provisions for carriage - Bulk (ADR) : VV1 Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates

Tunnel restriction code (ADR) : E

14.6.2. Transport by sea

Limited quantities (IMDG)

Special provisions (IMDG) : 274, 335, 966, 967

: E1 Excepted quantities (IMDG) Packing instructions (IMDG) : P002, LP02 Special packing provisions (IMDG) : PP12 : IBC08 IBC packing instructions (IMDG) IBC special provisions (IMDG)

Tank instructions (IMDG) : T1, BK1, BK2, BK3

: TP33 Tank special provisions (IMDG) EmS-No. (Fire) : F-A : S-F EmS-No. (Spillage) Stowage category (IMDG) : A

: When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. Stowage and segregation (IMDG)

14.6.3. Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y956

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PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179

ERG code (IATA) : 9L

#### 14.6.4. Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN): 274, 335, 61Limited quantities (ADN): 5 kgExcepted quantities (ADN): E1Carriage permitted (ADN): T\* B\*\*Equipment required (ADN): PP, A

Number of blue cones/lights (ADN) : 0
Additional requirements/Remarks (ADN) : (Azamethiphos)

Not subject to ADN : No

### 14.6.5. Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions : T1, BK1, BK2

(RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages : W13

(RID)

Special provisions for carriage – Bulk (RID) : VW1

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW31

Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 90
Carriage prohibited (RID) : No

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Twenty One is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

# SECTION 16: Other information

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Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE
	COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and
	mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending
	Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we

believe are reliable. However, the information is provided without any warranty, express or

implied, regarding its correctness.

#### Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Sens. 1	Sensitisation — Skin, category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H332	Harmful if inhaled
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
R23	Toxic by inhalation
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Т	Toxic
Xn	Harmful

# SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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