

Safety Data Sheet T0916 Version: 2.0

according to Regulation (EU) 2015/830

Supersedes 30/09/2011

Date of issue: 21/09/2010 Revision date: 01/11/2017

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

Product identifier

Product form : Substance Trade name : Thidiazuron EC-No. : 257-356-7 CAS-No. : 51707-55-2 Product code : T0916 Formula : C9H8N4OS

Synonyms : 1-Phenyl-3-(1,2,3,-thiadiazol-5-yl)-urea / TDZ

Product group : Raw material

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

Supplier

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

1.4. **Emergency telephone number**

: Supplier contact information: **Emergency number**

> +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

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

Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3,	H335
Respiratory tract irritation	

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Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H312+H332 - Harmful in contact with skin or if inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.

P280 - Wear eye protection, face protection, protective clothing, protective

gloves.

P305+P351 - IF IN EYES: Rinse cautiously with water for several minutes.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

 Name
 : Thidiazuron

 CAS-No.
 : 51707-55-2

 EC-No.
 : 257-356-7

Name	Product identifier	%
Thidiazuron	(CAS-No.) 51707-55-2 (EC-No.) 257-356-7	> 95

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

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

doctor.

First-aid measures after skin contact : Wash off with soap and plenty of water. Seek medical attention if ill effect or

irritation develops.

First-aid measures after eye contact : Rinse immediately with plenty of water. Seek medical advice.

First-aid measures after ingestion : Rinse mouth out with water. Seek medical attention if ill effect or irritation

develops.

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

Symptoms/effects : Affects the nervous system.

Symptoms/effects after eye contact : Tears. Redness, pain. Causes serious eye irritation. Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Dry powder. Carbon dioxide (CO2). Water spray.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in : When exposed to heat, may decompose liberating hazardous gases. COx.

case of fire

NOx. SOx.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Equip cleanup crew with proper protection.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Handle in accordance with good industrial

hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Powder: store at room temperature. Liquid: 2 - 8 °C. Store in dry, well-

ventilated area. Keep container closed when not in use.

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7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information : Provide local exhaust or general room ventilation

8.2. Exposure controls

Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear approved mask. Filter type P2 (EN 143)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder. Crystals.

Molecular mass : 220,25 g/mol

Colour : White to off-white.

Odour : Weak.

Odour threshold : No data available pH : No data available Relative evaporation rate : No data available

(butylacetate=1)

Melting point : $\approx 231 \, ^{\circ}\text{C}$

: No data available Freezing point : No data available **Boiling point** Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Soluble in DMSO. Poorly soluble in water.

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of storage, handling and use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Stable.

10.4. Conditions to avoid

Moisture. Heat.

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

In the event of fire, may decompose : COx. NOx. SOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Thidiazuron (51707-55-2)	
LD50 oral rat	5350 mg/kg
LD50 dermal rabbit	> 1000 mg/kg
LC50 inhalation rat (mg/l)	> 2300 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Other information : See actual entry in RTECS for complete information: YU1395000.

SECTION 12: Ecological information

12.1. Toxicity

Thidiazuron (51707-55-2)	
LC50 fish 1	> 19 mg/l Oncorhynchus mykiss (Rainbow trout, 96h)
EC50 Daphnia 1	10 mg/l (Daphnia magna, 48h)
EC50 96h algae (1)	0,86 mg/l (Skeletonema costatum, 96h)

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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA		
14.1. UN number	14.1. UN number			
Not regulated	Not regulated	Not regulated		
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.4. Packing group				
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available				

14.6. Special precautions for user

. Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Thidiazuron is not on the REACH Candidate List

Thidiazuron is not on the REACH Annex XIV List

15.1.2. National regulations

Ensure all national/local regulations are observed.

Germany

12th Ordinance Implementing the Federal Immission Control Act -

12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende

stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -Ontwikkeling

: The substance is not listed

Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. **Chemical safety assessment**

No additional information available

SECTION 16: Other information

Indication of changes:

	<u> </u>		
1.4	Emergency number	Modified	
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves
12.1	EC50 96h algae (1)	Added	

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC

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DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: ECHA (European Chemicals Agency). Supplier.

Full text of H- and EUH-statements:

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Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H312	Harmful in contact with skin.		
H315	Causes skin irritation		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		

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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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