

# **LOGRAN**

Version Revision Date: SDS Number: This version replaces all previous versions.

1.0 20.06.2018 S11305821

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LOGRAN

Design code : A7492A

Manufacturer or supplier's details

Company : Syngenta SA (Pty) Ltd

Address : P.O. Box 1044, No. 4 Krokodildrift Avenue

Brits 0250 South Africa

Telephone : +27 12 250 6300

Telefax : +27 12 250 3125

Emergency telephone number : +27 (0) 82 446 8946 (Griffon)

### Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

### 2. HAZARDS IDENTIFICATION

# Most important hazards

Warning

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

### Other hazards

May form combustible dust concentrations in air.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (% w/w)
triasulfuron (ISO)	82097-50-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 70 - < 90
sodium dibutylnaphthalenesulphon ate	25417-20-3	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 1 - < 2,5



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gum arabic 9000-01-5 Eye Irrit. 2; H319 >= 1 - < 10

For explanation of abbreviations see section 16.

#### 4. FIRST AID MEASURES

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.

Most important symptoms and effects, both acute and

and enects, both

delayed

Nonspecific

No symptoms known or expected.

Notes to physician : There is no specific antidote available.

Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: As the product contains combustible organic components, fire

will produce dense black smoke containing hazardous

products of combustion (see section 10).



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Exposure to decomposition products may be a hazard to

health.

Specific extinguishing

methods

Do not allow run-off from fire fighting to enter drains or water

courses.

Cool closed containers exposed to fire with water spray.

Special protective equipment

for firefighters

Wear full protective clothing and self-contained breathing

apparatus.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

Avoid dust formation.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for

disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed

air.

Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

### 7. HANDLING AND STORAGE

Advice on safe handling This material is capable of forming flammable dust clouds in

> air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material.

Electrical equipment should be compatible with the

flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of

flammable solvents.

This material can become readily charged in most operations.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

Further information on

storage stability

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient

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temperatures.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
triasulfuron (ISO)	82097-50-5	TWA	3 mg/m3	Syngenta

Engineering measures

Containment and/or segregation is the most reliable technical

protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the

actual risks in use.

Maintain air concentrations below occupational exposure

standards.

Where necessary, seek additional occupational hygiene

advice.

## Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks : No special protective equipment required.

Eye protection : No special protective equipment required.

Skin and body protection : No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek

appropriate professional advice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules



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Colour : beige to beige brown

Odour : No data available

Odour Threshold : No data available

pH : 4-8

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : May form combustible dust concentrations in air.

Burning number : 2 (20 °C)

2 (100 °C)

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Bulk density : 0,50 - 0,70 g/cm3

Solubility(ies)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature :

No data available

Decomposition temperature : No data available



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Minimum ignition temperature

Viscosity

: 550 °C

Viscosity, dynamic No data available

Explosive properties Not explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

Self-heating substances The substance or mixture is not classified as self heating.

Minimum ignition energy 100 - 300 mJ

10. STABILITY AND REACTIVITY

Reactivity None reasonably foreseeable.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid No decomposition if used as directed.

Incompatible materials None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of:

exposure

Ingestion Inhalation

Skin contact Eye contact

**Acute toxicity** 

**Product:** 

Acute oral toxicity LD50 (Rat, male and female): > 5.000 mg/kg



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Components:

triasulfuron (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.185 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

sodium dibutylnaphthalenesulphonate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after

short term inhalation.

Skin corrosion/irritation

**Product:** 

Species : Rabbit

Result : No skin irritation

**Components:** 

triasulfuron (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

**Product:** 

Species : Rabbit

Result : No eye irritation

**Components:** 

triasulfuron (ISO):

Species : Rabbit

Result : No eye irritation

sodium dibutylnaphthalenesulphonate:

Result : Eye irritation

gum arabic:

Result : Eye irritation



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## Respiratory or skin sensitisation

**Product:** 

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

**Components:** 

triasulfuron (ISO):

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

**Components:** 

triasulfuron (ISO):

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

**Components:** 

triasulfuron (ISO):

Carcinogenicity - Assessment

No evidence of carcinogenicity in animal studies.

Reproductive toxicity

**Components:** 

triasulfuron (ISO):

Reproductive toxicity -

Assessment

No toxicity to reproduction

Repeated dose toxicity

**Components:** 

triasulfuron (ISO):

Remarks : No adverse effect has been observed in chronic toxicity tests.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Product:** 

Toxicity to daphnia and other :

aquatic invertebrates Remarks: No data is available on the product itself.



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**Components:** 

triasulfuron (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna Straus): > 100 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,57

mg/l

Exposure time: 96 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,023

mg/l

End point: Growth rate Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): 0,28 μg/l

End point: Frond growth Exposure time: 7 d

NOEC (Lemna gibba (gibbous duckweed)): 0,08 µg/l

End point: Growth rate Exposure time: 7 d

M-Factor (Acute aquatic

toxicity)

1.000

M-Factor (Chronic aquatic

toxicity)

1.000

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

sodium dibutylnaphthalenesulphonate:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

**Components:** 

triasulfuron (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: ca. 210 d

Remarks: Persistent in water.



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#### Bioaccumulative potential

### **Components:**

triasulfuron (ISO):

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-

octanol/water

log Pow: -0,59 (25 °C)

### Mobility in soil

## **Components:**

triasulfuron (ISO):

Distribution among

environmental compartments

Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 3 - 83 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

#### Other adverse effects

### **Components:**

triasulfuron (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not

considered to be very persistent and very bioaccumulating

(vPvB).

### 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or

incineration.

If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Triple rinse containers.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.



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### 14. TRANSPORT INFORMATION

#### International Regulations

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRIASULFURON)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(TRIASULFURON)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction : 956

(passenger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRIASULFURON)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 15. REGULATORY INFORMATION

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

None known.



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#### **16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch -Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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