

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 10/11/2014

Supersedes

Version: 3.0

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

1.1. Product identifier

Trade name

: Imidaclorprid 100g/L + Bifenthrin 30g/L SC

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

Relevant identified uses

Industrial/Professional use spec

For professional use only

Use of the substance/mixture

Agriculture insecticide

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet

Rotam Agrochemical Company Limited Unit 6, 26/F, Trend Centre, 29 Cheung Lee Street, Chai Wan, Hong Kong T 00852 2896 0662 - F 00852 25586577

msds@rotam.com Emergency telephone number

Emergency number

: (86) 532 8388 9090

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Acute toxicity (oral), Category 4

H302

H400

Hazardous to the aquatic environment — Acute Hazard, Category 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Expert judgment

Full text of 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

GHS09

Signal word (CLP)

: Warning

Hazardous ingredients

: Imidacloprid (Iso); 1-(6-Chloropyridin-3-Ylmethyl)-N-Nitroimidazolidin-2-Ylidenamine; Bifenthrin

Hazard statements (CLP)

: H302 - Harmful if swallowed H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell

P330 - Rinse mouth P391 - Collect spillage

P501 - Dispose of contents/container to local regulation

Other hazards

No additional information available

SECTION 3: Composition/information on ingredient

Substance

Not applicable

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3.2. Mixture

Name	Product identifier	g/L	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Imidacloprid (Iso); 1-(6-Chloropyridin-3-YImethyl)-N- Nitroimidazolidin-2-Ylidenamine	(CAS No) 138261-41-3 (EC no) 428-040-8 (EC index no) 612-252-00-4	100	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	
Bifenthrin	(CAS No) 82657-04-3	30	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Sens. 1B, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410	

Full text of H-statements: see section 16

SECTION 4: First aid measures

41 Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person, If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries

: Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media 5.1.

Suitable extinguishing media

: Foam, Dry powder, Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection,

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1.

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections

See Heading 8, Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place. Keep container closed when

not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

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

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

Wear protective gloves

Eye protection

: Chemical goggles or safety glasses

Respiratory protection

Wear appropriate mask

Other information

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 : Liquid

Appearance : Off-white.

Odour : characteristic.

Odour threshold : No data available

pH : 7.66

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 No data available 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 : 1.05

Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Product is not explosive.
Oxidising properties : Product is not an oxidize

Oxidising properties : Product is not an oxidizer.

Explosive limits : No data available

9.2 Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

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10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids, Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Imidaclorprid 100g/L + Bifenthrin 30	g/L SC
LD50 oral rat	1098 mg/kg (Sa-ford)
LD50 dermal rat	> 2000 mg/kg (Sa-ford)
LC50 inhalation rat (mg/l)	> 2.17 mg/l/4h (Sa-ford)

Skin corrosion/irritation : Slightly irritant but not relevant for classification

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation Not irritant to eyes

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Did not cause sensitisation

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity Not classified

Additional information : Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Additional information : Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

exposure)

: Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1. Toxicity

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

LC50 fish 1	3-Ylmethyl)-N-Nitroimidazolidin-2-Ylidenamine (138261-41-3) 211 mg/l (96h,rainbow trout,epm)
LC50 other aquatic organisms 2	0.0552 mg/l (24h,Chironomus riparius,DAR)
EC50 Daphnia 1	85 mg/l (48h,EPM)
ErC50 (algae)	> 100 mg/l (72h,Pseudokirchneriella subcapitata,epm)
Bifenthrin (82657-04-3)	
LC50 fish 1	0.00015 mg/l (rainbow trout,epm)
EC50 Daphnia 1	0.00016 mg/l epm
ErC50 (algae)	> 8 mg/l epm
TLM fish 1	0.00015 mg/l (raibow trout)
TLM fish 2	0.00035 mg/l (bluegill sunfish)
TLM other aquatic organisms 1	0.00016 mg/l (Daphnia)

12.2. Persistence and degradability

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initiaaciophia (iso), 1-(e-cinioropyriaiti	-3-Ylmethyl)-N-Nitroimidazolidin-2-Ylidenamine (138261-41-3)		
Persistence and degradability	May cause long-term adverse effects in the environment.		
Bifenthrin (82657-04-3)			
Persistence and degradability	May cause long-term adverse effects in the environment.		

Bioaccumulative potential

Imidacloprid (Iso); 1-(6-Chloropyrid	n-3-Ylmethyl)-N-Nitroimidazolidin-2-Ylidenamine (138261-41-3)
Log Pow	0.58
Bioaccumulative potential	Not established.
Bifenthrin (82657-04-3)	
Bioaccumulative potential	Not getablished

12.4. Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

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

14.1. **UN number**

UN-No. (ADR) : 3082 UN-No. (IMDG) : 3082 UN-No. (IATA) 3082 UN-No. (ADN) 3082 UN-No. (RID) : 3082

14.2. UN proper shipping name

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

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

Proper Shipping Name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport document description (ADR) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (E)

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE Transport document description (IMDG)

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III, ENVIRONMENTALLY **HAZARDOUS**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III,

ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III,

ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

Transport document description (ADN)

ADR

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



IMDG

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Transport hazard class(es) (IMDG)

Danger labels (IMDG)

: 9 : 9



IATA

Transport hazard class(es) (IATA)

Hazard labels (IATA)

: 9

: 9



ADN

Transport hazard class(es) (ADN)

Danger labels (ADN)

: 9

: 9



Transport hazard class(es) (RID)

Danger labels (RID)

: 9

: 9



14.4. Packing group

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

Environmental hazards

Dangerous for the environment

Marine pollutant Other information : Yes

22.1

: Yes

: No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)

: M6

Special provisions (ADR)

274, 335, 601

Limited quantities (ADR) Excepted quantities (ADR)

: 51

Packing instructions (ADR)

: E1

Special packing provisions (ADR)

P001, IBC03, LP01, R001 : PP1

Mixed packing provisions (ADR)

: MP19

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Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) Vehicle for tank carriage Transport category (ADR)

Special provisions for carriage - Packages

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

: TP1, TP29

: LGBV

: AT : 3

: CV13

: 90

: •3Z

: V12

90 3082

Tunnel restriction code (ADR) ; E

EAC code

- Transport by sea

Special provisions (IMDG) 274, 335 Limited quantities (IMDG) 1 5 L Excepted quantities (IMDG) € E1 Packing instructions (IMDG)

P001, LP01 Special packing provisions (IMDG) PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4

Tank special provisions (IMDG) † TP2, TP29 EmS-No. (Fire) : F-A EmS-No. (Spillage) S-F Stowage category (IMDG) ‡ A

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) 964 PCA max net quantity (IATA) : 450L CAO packing instructions (IATA) 964 CAO max net quantity (IATA) 450L Special provisions (IATA) 1 A97, A158 ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) 274, 335, 61 Limited quantities (ADN) : 5 L Excepted quantities (ADN) : E1 Carriage permitted (ADN) ; T

Equipment required (ADN) : PP Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M6

Special provisions (RID) 274, 335, 601

Limited quantities (RID) : 5L Excepted quantities (RID) 1 E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) PP1 Mixed packing provisions (RID) MP19

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Portable tank and bulk container instructions

Portable tank and bulk container special

provisions (RID)

: TP1, TP29

Tank codes for RID tanks (RID)

: LGBV

Transport category (RID)

: T4

Special provisions for carriage - Packages

: 3

t W12

CW13, CW31

Special provisions for carriage - Loading,

unloading and handling (RID)

Colis express (express parcels) (RID)

: CF8

Hazard identification number (RID)

: 90

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**

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

VwVwS Annex reference

: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS,

12th Ordinance Implementing the Federal Immission Control Act - 12.BlmSchV

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

None of the components are listed

: None of the components are listed

: None of the components are listed

None of the components are listed

None of the components are listed.

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

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

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.

Other information

: None.

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
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

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Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam, 1	Serious eye damage/eye irritation, Category 1
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H300	Fatal if swallowed
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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