

# SAFETY DATA SHEET



## Tatum

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### SECTION 1: Identification of the hazardous chemical and of the supplier

#### Product identifier

Product name : Tatum

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

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Principal Supplier : FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

Local registrant : FMC Chemicals (Malaysia) Sdn Bhd  
Level 16, 1 Sentral, Jalan Stesen Sentral 5, Kuala Lumpur Sentral  
50470, Kuala Lumpur, Malaysia  
Phone No: +60320929423  
Fax No: +603-2092 9201

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
CHEMTREC (Asia-Pacific Regional Number): +65 3163 8374

Medical emergency:  
All other countries: +1 651 / 632-6793 (Collect)  
1 703 / 741-5970 (CHEMTREC - International)

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### SECTION 2: Hazards identification

#### Classification of the hazardous chemical

Acute toxicity (Oral) : Category 4

Specific target organ toxicity - single exposure : Category 2 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 1 (Blood, Nervous system)

Hazardous to the aquatic environment - chronic hazard : Category 1

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### Label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H302 Harmful if swallowed.  
H371 May cause damage to organs (Central nervous system).  
H372 Causes damage to organs (Blood, Nervous system) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

#### Prevention:

P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.  
P314 Get medical advice/ attention if you feel unwell.  
P391 Collect spillage.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
indoxacarb (ISO)	173584-44-6	30
Kraft lignin, sulfomethylated	68512-35-6	>= 30 -< 60
Silicon dioxide	112926-00-8	>= 10 -< 30

## SECTION 4: First aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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- Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on clothes, remove clothes.  
If on skin, rinse well with water.  
Wash off with soap and plenty of water.  
Get medical attention if irritation develops and persists.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Acute effects on nervous system: drowsiness, tremors, paralysis. Chronic effects include cyanosis  
Harmful if swallowed.  
May cause damage to organs.  
Causes damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Indoxacarb acts by blocking sodium channels in the nervous system. Secondly, it has oxidant effects on red blood cells causing methemoglobinemia.  
Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment is primarily supportive and symptomatic. Consider possibility of methemoglobinemia and treat with methylene blue if required.  
Treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

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**Physicochemical hazards arising from the chemical**

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapors.  
Chlorinated compounds  
Fluorinated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen cyanide  
Hydrogen chloride  
Hydrogen fluoride  
Sulfur oxides

**Special protective equipment and precautions for fire-fighters**

- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.
- Specific extinguishing methods : Use a water spray to cool fully closed containers.  
Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazchem Code : 2Z

**SECTION 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
If it can be safely done, stop the leak.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

### SECTION 7: Handling and storage

#### Handling

##### Precautions for safe handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

#### Storage

##### Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	112926-00-8	TWA	10 mg/m3	MY PEL

#### Individual protection measures, such as personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin protection : Dust impervious protective suit

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Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hand protection

#### Material

: Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

#### Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

### Respiratory protection

: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

#### Filter type

: Particulates type

### Hygiene measures

: General industrial hygiene practice.  
Avoid contact with skin, eyes and clothing.  
Do not breathe dust or spray mist.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

### Physical state

: solid

### Form

: dry, free flowing granules

### Color

: dark brown

### Odor

: mild, woody

### Odor Threshold

: not determined

### pH

: 7.5 (20 °C)  
Concentration: 10 g/l 1 %

### Melting point/freezing point

: Not available for this mixture.

### Boiling point/boiling range

: No data available

### Flash point

: Not applicable

### Evaporation rate

: Not available for this mixture.

### Flammability (solid, gas)

: Does not sustain combustion.

### Self-ignition

: not auto-flammable

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Upper explosion limit / Upper flammability limit : Not available for this mixture.

Lower explosion limit / Lower flammability limit : Not available for this mixture.

Vapor pressure : Not available for this mixture.

Relative vapor density : Not available for this mixture.

Relative density : 0.8

Density : No data available

Bulk density : 800 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : dispersible

Partition coefficient: n-octanol/water : Not available for this mixture.

Autoignition temperature : No data available

Decomposition temperature : not determined

Viscosity  
Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Particle size : No data available

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### SECTION 10: Stability and reactivity

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Dust may form explosive mixture in air.

Conditions to avoid : Avoid dust formation.  
Heat, flames and sparks.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition products : Stable under recommended storage conditions.

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**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

**Acute toxicity**

Harmful if swallowed.

**Product:**

- |                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat, male): 1,876 mg/kg<br>Method: OECD Test Guideline 401<br><br>LD50 (Rat, female): 687 mg/kg<br>Method: OECD Test Guideline 401   |
| Acute inhalation toxicity | : | LC50 (Rat): > 5.6 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity     | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 402   |

**Components:****indoxacarb (ISO):**

- |                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 281 - 291 mg/kg<br>Method: OECD Test Guideline 420<br>Symptoms: ataxia, Tremors, Diarrhea, clonic convulsions<br>GLP: yes<br><br>LD50 (Rat, female): 179 mg/kg<br>Method: OECD Test Guideline 401<br>Target Organs: Nervous system<br>Symptoms: hypoactivity, Tremors, ataxia, Fatality<br>GLP: yes |
| Acute inhalation toxicity | : | LC50 (Rat, female): 4.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Symptoms: nasal discharge, lethargy<br>GLP: yes   |
| Acute dermal toxicity     | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes<br>Assessment: The substance or mixture has no acute dermal toxicity  |

**Kraft lignin, sulfomethylated:**



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Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

### **Silicon dioxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC0 (Rat, male and female): > 0.14 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials  
no mortality

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

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

#### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Components:**

##### **indoxacarb (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight irritation  
GLP : yes

##### **Kraft lignin, sulfomethylated:**

Result : No skin irritation

##### **Silicon dioxide:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

### **Serious eye damage/eye irritation**

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

#### **Product:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

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### **Components:**

#### **indoxacarb (ISO):**

Species	:	Rabbit
Result	:	slight irritation
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
GLP	:	yes
Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.

#### **Kraft lignin, sulfomethylated:**

Result	:	Moderate eye irritation
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#### **Silicon dioxide:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	Based on data from similar materials

### **Respiratory or skin sensitization**

#### **Skin sensitization**

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

#### **Respiratory sensitization**

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

### **Product:**

Test Type	:	Maximization Test
Species	:	Guinea pig
Assessment	:	Did not cause sensitization on laboratory animals.
Method	:	OECD Test Guideline 406

### **Components:**

#### **indoxacarb (ISO):**

Species	:	Guinea pig
Result	:	May cause sensitization by skin contact.

Test Type	:	Maximization Test
Species	:	Guinea pig
Assessment	:	May cause sensitization by skin contact.
Method	:	US EPA Test Guideline OPPTS 870.2600
Result	:	May cause sensitization by skin contact.
GLP	:	yes

#### **Kraft lignin, sulfomethylated:**

Species	:	Guinea pig
Result	:	Not a skin sensitizer.

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**Germ cell mutagenicity**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Kraft lignin, sulfomethylated:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

**Silicon dioxide:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Species: Rat (male)  
Application Route: Inhalation  
Result: negative  
Remarks: Based on data from similar materials

**Carcinogenicity**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

Species : Rat, female  
Application Route : Oral  
Exposure time : 24 m  
: 2.13 mg/kg bw/day  
Result : negative

Carcinogenicity - Assess- : Animal testing did not show any carcinogenic effects.

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**Silicon dioxide:**

Species	: Rat
Application Route	: Oral
Exposure time	: 103 weeks
Method	: OECD Test Guideline 453
Result	: negative
Remarks	: Based on data from similar materials

**Reproductive toxicity**

Not classified due to lack of data.

**Components:****indoxacarb (ISO):**

Effects on fertility	: Test Type: Two-generation study Species: Rat Result: Animal testing did not show any effects on fertility.
Effects on fetal development	: Species: Rabbit General Toxicity Maternal: NOEL: 500 mg/kg bw/day Developmental Toxicity: NOEL: 500 mg/kg bw/day Method: EPA OPP 83-3
Reproductive toxicity - Assessment	: Animal testing did not show any effects on fertility. Animal testing did not show any effects on fetal development.

**Silicon dioxide:**

Effects on fertility	: Species: Rat General Toxicity Parent: NOAEL: 1.5 mg/kg bw/day Fertility: NOAEL: > 6.9 mg/kg body weight
Effects on fetal development	: Test Type: Embryo-fetal development Species: Rat Application Route: Oral General Toxicity Maternal: NOAEL: 2 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 2 mg/kg bw/day Symptoms: Reduced fetal weight., Reduced number of viable fetuses.  Test Type: Embryo-fetal development Species: Rabbit Application Route: Oral General Toxicity Maternal: NOAEL: 500 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 500 mg/kg bw/day Symptoms: Reduced fetal weight., fused or incompletely ossified sternebrae

**STOT-single exposure**

May cause damage to organs (Central nervous system).

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**Components:****indoxacarb (ISO):**

Target Organs	:	Central nervous system
Assessment	:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

**STOT-repeated exposure**

Causes damage to organs (Blood, Nervous system) through prolonged or repeated exposure.

**Components:****indoxacarb (ISO):**

Target Organs	:	Blood, Nervous system
Assessment	:	Causes damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity****Components:****indoxacarb (ISO):**

Species	:	Rat, female
NOAEL	:	1.7 mg/kg
LOAEL	:	4.1 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Method	:	OECD Test Guideline 408
GLP	:	yes
Target Organs	:	Blood

**Silicon dioxide:**

Species	:	Rat, male and female
NOAEL	:	2,500 mg/kg
Application Route	:	Oral
Exposure time	:	13 weeks
Method	:	OECD Test Guideline 408
Remarks	:	Based on data from similar materials

Species	:	Rat, male and female
NOAEL	:	1.3 - 10 mg/l
LOAEL	:	5.9 mg/l
Application Route	:	Inhalation
Exposure time	:	13 weeks
Method	:	OECD Test Guideline 413
Remarks	:	Based on data from similar materials

**Aspiration toxicity**

Not classified due to lack of data.

**Further information****Product:**

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Remarks : Acute effects on nervous system: drowsiness, tremors, paralysis. Chronic effects include cyanosis

### SECTION 12: Ecological information

#### Ecotoxicity

##### Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 1.8 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1.7 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EbC50 (Pseudokirchneriella subcapitata (green algae)): > 1.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to terrestrial organisms	: LD50 (Colinus virginianus (Bobwhite quail)): 580 mg/kg Method: US EPA Test Guideline OPP 71-1 GLP: yes  LD50 (Apis mellifera (bees)): 0.0016 µg/bee Exposure time: 48 h End point: Acute oral toxicity Method: OEPP/EPPO Test Guideline 170 GLP: yes  LD50 (Apis mellifera (bees)): 0.0013 µg/bee Exposure time: 48 h End point: Acute contact toxicity Method: OEPP/EPPO Test Guideline 170 GLP: yes

##### Components:

##### **indoxacarb (ISO):**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 GLP: yes  LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.17 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)): 0.6 mg/l

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aquatic invertebrates	Exposure time: 48 h EC50 (Daphnia magna (Water flea)): > 0.17 mg/l Exposure time: 48 h Test Type: flow-through test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: NOEC (Pseudokirchneriella subcapitata (algae)): 0.0793 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	: 1
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l Exposure time: 90 d Test Type: Early Life-Stage Method: OECD Test Guideline 210 GLP: yes  NOEC (Pimephales promelas (fathead minnow)): 0.0675 mg/l Exposure time: 28 d Test Type: Early Life-Stage Method: OECD Test Guideline 210 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.09 mg/l Exposure time: 21 d Method: OECD Test Guideline 202 GLP: yes  NOEC (Daphnia magna (Water flea)): 0.0351 mg/l Exposure time: 21 d Test Type: Static renewal test Method: OECD Test Guideline 211 GLP: yes
M-Factor (Chronic aquatic toxicity)	: 1
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): > 1,250 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 GLP: yes  Method: OECD Test Guideline 216 Remarks: No significant adverse effect on Nitrogen mineralization.  Method: OECD Test Guideline 217 Remarks: No significant adverse effect on Carbon mineralization.

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Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): 0.232 µg/bee  
Exposure time: 48 d  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213

LD50 (*Apis mellifera* (bees)): 0.068 µg/bee  
Exposure time: 48 d  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214

LD50 (*Colinus virginianus* (Bobwhite quail)): 98 mg/kg  
Method: US EPA Test Guideline OPP 71-1  
GLP: yes

NOEC (*Anas platyrhynchos* (Mallard duck)): 720 ppm  
Exposure time: 147 d  
End point: Reproduction Test  
Method: OECD Test Guideline 206  
GLP: yes

NOEC (*Colinus virginianus* (Bobwhite quail)): 144 ppm  
Exposure time: 147 d  
End point: Reproduction Test

### **Kraft lignin, sulfomethylated:**

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 615 mg/l  
Exposure time: 96 h

### **Silicon dioxide:**

Toxicity to fish : LC50 (*Brachydanio rerio* (zebrafish)): > 10,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 10,000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOELR (*Desmodesmus subspicatus* (green algae)): 10,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.



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**Persistence and degradability****Components:****indoxacarb (ISO):**

Biodegradability : Result: Not readily biodegradable.

**Kraft lignin, sulfomethylated:**Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E**Silicon dioxide:**Biodegradability : Result: Not biodegradable  
Remarks: Based on data from similar materials**Bioaccumulative potential****Components:****indoxacarb (ISO):**Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 77.3  
Exposure time: 21 d  
Method: OECD Test Guideline 305Partition coefficient: n-octanol/water : log Pow: 4.52 (20 °C)  
Method: OECD Test Guideline 107  
GLP: yes**Silicon dioxide:**Bioaccumulation : Bioconcentration factor (BCF): 3.16  
Remarks: Based on data from similar materials**Mobility in soil****Components:****indoxacarb (ISO):**Distribution among environmental compartments : Koc: 4483 ml/g, log Koc: 3.65  
Remarks: Low mobility in soil.

Kd: 46 - 150

**Other adverse effects****Product:**Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

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### SECTION 13: Disposal information

#### Disposal methods

- |                        |   |   |
|------------------------|---|---|
| Waste from residues    | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.                                    |
| Contaminated packaging | : | Empty remaining contents.<br>Do not re-use empty containers.<br>Packaging that is not properly emptied must be disposed of as the unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal. |

### SECTION 14: Transport information

#### International Regulations

##### UNRTDG

- |                      |   |  |
|----------------------|---|--|
| UN number            | : | UN 3077  |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Indoxacarb) |
| Class                | : | 9  |
| Subsidiary risk      | : | ENVIRONM.  |
| Packing group        | : | III  |
| Labels               | : | 9 (ENVIRONM.)  |

##### IATA-DGR

- |  |   |  |
|--|---|--|
| UN/ID No.                                | : | UN 3077  |
| Proper shipping name                     | : | Environmentally hazardous substance, solid, n.o.s.<br>(Indoxacarb) |
| Class                                    | : | 9  |
| Packing group                            | : | III  |
| Labels                                   | : | Miscellaneous  |
| Packing instruction (cargo aircraft)     | : | 956  |
| Packing instruction (passenger aircraft) | : | 956  |
| Environmentally hazardous                | : | yes  |

##### IMDG-Code

- |                      |   |  |
|----------------------|---|--|
| UN number            | : | UN 3077  |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Indoxacarb) |
| Class                | : | 9  |
| Packing group        | : | III  |
| Labels               | : | 9  |
| EmS Code             | : | F-A, S-F   |

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Marine pollutant : yes

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

Not applicable for product as supplied.

Hazchem Code : 2Z

### 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.

## SECTION 15: Regulatory information

### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

METHYL (S)-7-CHLORO-2,3,4A,5-TETRAHYDRO-2-  
{(METHOXYCARBONYL)[4-  
(TRIFLUOROMETHOXY)PHENYL]CARBAMOYL}INDENO[1,  
2-E][1,3,4]OXADIAZINE-4A-CARBOXYLATE  
Kraft lignin, sulfomethylated

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

## SECTION 16: Other information

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### Full text of other abbreviations

MY PEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

MY PEL / TWA : Eight-hour time-weighted average airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; 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; 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; TECI - Thailand Existing Chemicals Inventory; 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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