

Indoxacarb

Version 1.0

Revision Date 2018.01.03 Document no. 130000027381

This SDS adheres to the standards and regulatory requirements of Korea and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Indoxacarb

Other names : DPX-KN128 150EC

B12109700

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Supplier identification

Company : FMC Korea Ltd.

Street address : 7th floor, Mijin Building, 111, Dogok-ro, Gangnam-gu, Seoul 06253, Republic of

Korea

Telephone : +82-2-539-6411 Telefax : +82-2-567-4662

Emergency telephone : +82-2-539-6411 for working time.

number There is no emergency telephone no. for 24hours.

2. HAZARDS IDENTIFICATION

Product hazard classification

Acute toxicity (Oral) : Category 4

Specific target organ : Category 2 (Central nervous system)

toxicity - single exposure

Specific target organ : Category 1 (Central nervous system)

toxicity - repeated

exposure

Chronic aquatic toxicity : Category 2

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Danger

Hazard statements : Harmful if swallowed.

May cause damage to organs. (Central nervous system)

Causes damage to organs through prolonged or repeated exposure. (Central

nervous system)

Toxic to aquatic life with long lasting effects.

Precautionary : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.



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statements Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.

Get medical advice/ attention if you feel unwell.

Rinse mouth. Collect spillage. Store locked up.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical Name	Other names	CAS-No.	Concentration
Indoxacarb	Indoxacarb Active (+) isomer	173584-44-6	15.84 %
2-Ethylhexan-1-ol	Octyl alcohol (2-ethyl-1-hexanol)	104-76-7	1 - 5%
Other Ingredients	No information available.		79.16 - 83.16%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call

a poison control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty

of water for 15-20 minutes. Call a poison control center or doctor for treatment

advice.

Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention.

Artificial respiration and/or oxygen may be necessary.

Ingestion : Have person sip a glass of water if able to swallow. DO NOT induce vomiting

unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a poison control center or

doctor for treatment advice.

Most important symptoms/effects, acute

and delayed

No information available.

Protection of first-aiders : No information available.

Indication of immediate medical attention and notes for physician

No information available.

5. FIREFIGHTING MEASURES



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Suitable extinguishing

media

Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing

media

High volume water jet, (contamination risk)

Specific hazards arising

from the chemical

No information available.

Special protective

equipment for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal

protective equipment.

Specific extinguishing

methods

No information available.

Further information (on small fires) If area is heavily exposed to fire and if conditions permit, let fire

burn itself out since water may increase the area contaminated. Cool

containers/tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Use personal protective equipment.

Environmental precautions and protective procedures

Prevent material from entering sewers, waterways, or low areas.

Methods and materials for containment and

cleaning up

Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an

approved container.

Additional advice Never return spills in original containers for re-use. Dispose of in accordance with

local regulations.

7. HANDLING AND STORAGE

Handling

Technical

measures/Precautions

Wash hands before breaks and immediately after handling the product. Remove

and wash contaminated clothing before re-use.

Precautions for safe

handling

No information available.

Storage

Conditions for safe storage, including any incompatibilities

Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only in a location inaccessible to children and pets. Not for use or storage in or around the home. Keep out of the reach of

children.

Storage period: Storage temperature: > 0 °C



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No information available.

Appropriate engineering

controls

: No information available.

Biological occupational

exposure limits

No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear

approved respiratory protection with dust/mist cartridge.

Eye protection : Wear protective eyewear to prevent contact with this substance.

Hand protection : Material: Protective gloves

Body Protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as

appropriate.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and

water after handling and before eating, drinking, chewing gum, using tobacco, or

using the toilet. Wash all protective clothing after use.

Protective measures : End users of this product should follow label instructions for personal protection

when using this product.

All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if

contaminated.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash

PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state : liquid
Form : liquid
Colour : amber

Odour : faint burn smell

Odour Threshold : No information available.

pH : 6.6 (20 °C)

(1% solution in water)

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.



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Flash point : 69 °C

Evaporation rate : No information available.

Flammability (solid, gas) : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit : No information available. Lower explosion limit : No information available.

Vapour pressure : No information available.

Solubility(ies)

Water solubility : No information available.

Vapour density : No information available.

Density

Density : (20 °C)

Partition coefficient: n-

octanol/water

No information available.

Auto-ignition temperature

No information available.

Decomposition temperature

No information available.

Viscosity

Viscosity, kinematic : No information available.

Viscosity, dynamic : 5.6 mPa.s (25 °C)

Molecular weight : No information available.

10. STABILITY AND REACTIVITY

Reactivity : No information available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

No information available.

Conditions to avoid : No information available.

Incompatible materials : None reasonably foreseeable.

Hazardous

decomposition products

No information available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Respiratory system Refer to below subheading Oral Refer to below subheading

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Eye/Skin contact Refer to below subheading

Acute toxicity

Oral

Indoxacarb : LD50/Rat female: 977 mg/kg

Inhalation

Indoxacarb : LC50/4 h/Rat(dust/mist): > 5.2 mg/l

The substance or mixture has no acute inhalation toxicity

Dermal

Indoxacarb : LD50/Rat: > 5,000 mg/kg

Skin corrosion/irritation

Indoxacarb : Species: Rabbit

Result: Mild skin irritation

Serious eye damage/eye irritation

Indoxacarb : Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Indoxacarb : Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Carcinogenicity

Indoxacarb : Animal testing did not show any carcinogenic effects.

2-Ethylhexan-1-ol : Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Germ cell mutagenicity

Indoxacarb : Tests on bacterial or mammalian cell cultures did not show mutagenic

effects. Animal testing did not show any mutagenic effects.

2-Ethylhexan-1-ol : Tests on bacterial or mammalian cell cultures did not show mutagenic

effects. Evidence suggests this substance does not cause genetic

damage in animals.

Reproductive toxicity

Indoxacarb : Reproductive toxicity: Animal testing did not show any effects on fertility.

No toxicity to reproduction

Teratogenicity: Animal testing showed effects on embryo-fetal

development at levels equal to or above those causing maternal toxicity.

2-Ethylhexan-1-ol :

Teratogenicity: Animal testing showed no developmental toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Indoxacarb : Target Organs: Central nervous system

The substance or mixture is classified as specific target organ toxicant,

single exposure, category 2.

Specific target organ toxicity - repeated exposure

Indoxacarb : Refer to acute toxicity and/or repeated dose toxicity data for more

information on target organs if applicable.

Aspiration hazard



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Indoxacarb : No aspiration toxicity classification

Other

Indoxacarb : Repeated dose toxicity:

Inhalation/Rat

Target Organs: Central nervous system, Blood

Central nervous system effects, Incoordination, Increased mortality or

reduced survival, altered hematology

Oral/multiple species Target Organs: Blood altered hematology

2-Ethylhexan-1-ol : Repeated dose toxicity:

Oral/Rat

NOAEL: 250 mg/kg

No toxicologically significant effects were found.

Inhalation/Rat

No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute and prolonged toxicity to fish

Indoxacarb : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 7.0 mg/l

Toxicity to aquatic plants

Indoxacarb : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 16 mg/l

Acute toxicity to aquatic invertebrates

Indoxacarb : EC50/48 h/Daphnia magna (Water flea): 1.67 mg/l

Chronic toxicity to fish

Indoxacarb : Early Life-Stage/NOEC/90 d/Oncorhynchus mykiss (rainbow trout): 0.15

mg/l

Chronic toxicity to aquatic Invertebrates

Indoxacarb : NOEC/21 d/Daphnia magna (Water flea): 0.9 mg/l

Persistence and degradability

Indoxacarb : Result: Readily biodegradable

2-Ethylhexan-1-ol : Result: Biodegradable

Readily biodegradable

Bioaccumulation

Indoxacarb : Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 21 d

Bioconcentration factor (BCF): 77.3 Method: OECD Test Guideline 305

Does not bioaccumulate. Information source: Internal study report

2-Ethylhexan-1-ol : Bioaccumulation is unlikely.

Mobility in soil

No information available.

Other adverse effects

Indoxacarb : See product label for additional application instructions relating to

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environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: In accordance with local and national regulations. Do not contaminate ponds,

waterways or ditches with chemical or used container.

Disposal precaution (including the disposal method of contaminated container and packaging) Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IMDG

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Indoxacarb)

Class : 9
Packing group : III
Marine pollutant : yes

IATA

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Indoxacarb)

Class : 9 Packing group : III

Matters needing attention

for transportation

Not applicable

15. REGULATORY INFORMATION

Industrial Safety and Health Act

not regulated

Chemicals Control Act

not regulated

Dangerous Substance Safety Management Act

not regulated

Waste Control Act

Dispose of in accordance with local regulations.

Regulations in other countries

No information available.

16. OTHER INFORMATION

References



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SDS Number: 130000027381

This MSDS is translated to Korean by FMC in accordance with Korea ISHA requirements based on the global

MSDS of the FMC Company.

Revision Date/Version

Date of first preparation : 2018.01.03 Revision Date : 2018.01.03

Version : 2.0

Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.