

Version 1.0

Revision Date 2018.01.03 Ref. 130000000325

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 : STEWARD® 30WG

Synonyms : B10596913

DPX-MP062 30 WG

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Information on the Manufacturer/Supplier/Distributor

Company : FMC Korea Ltd.

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

Korea

Responsible Department : No information available.

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

GHS-Classification

Acute toxicity (Oral) Category 4
Specific target organ toxicity - Category 2

single exposure

Specific target organ toxicity - Category 2

repeated exposure

Chronic aquatic toxicity Category 2

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

GHS Label element

Pictogram :





Signal word : Warning

Hazard statements : Harmful if swallowed.

Toxic to aquatic life with long lasting effects.

May cause damage to organs. (Central nervous system)

May cause damage to organs through prolonged or repeated exposure. (Blood)



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

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

Pure substance/mixture : Mixture

Components

Chemical Name	CAS-No.	Concentration	
Indoxacarb	173584-44-6	30 %	
Other Ingredients		70 %	

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. Call a poison control

center or doctor for treatment advice.

Ingestion : Call a poison control center or doctor for treatment advice. 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. Do not give anything by mouth to an

unconscious person.

Indication of immediate medical attention and notes

for physician

No information available.

5. FIREFIGHTING MEASURES

Suitable (and inappropriate)

extinguishing media

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

Unsuitable extinguishing media:

High volume water jet, (contamination risk)

Specific hazards arising : Evacuate personnel and keep upwind of fire. If area is heavily exposed to fire and



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from the chemical if conditions permit, let fire burn itself out since water may increase the area

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

courses. Cool containers / tanks with water spray.

Special protective

equipment for firefighters

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

protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Dispose of in accordance with local regulations.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Methods and materials for containment and cleaning

up

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe 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.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing dust or

vapour.

Conditions for safe storage

Suitable storage conditions

Store in a cool, dry place. Store product in original container only in a location inaccessible to children and pets. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Observe label

precautions.

Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry, cool and well-ventilated

place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits of the chemical substance, biological exposure limits and etc.

No information available.

Engineering measures : Use only with adequate ventilation.

FMC

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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

Skin and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as

appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : dry, free flowing granules

Colour : dark brown

Odour : mild woody

Odour Threshold : no data available

pH : 7.5 (10 g/l) (20 °C)

Melting point/freezing point

no data available

Boiling point/boiling range

no data available

Flash point : not applicable

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper and lower flammable or explosive limits

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : Not available for this mixture.



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Solubility(ies)

Water solubility : not determined

Solubility in other solvents : no data available

Vapour density : no data available

Specific gravity

Bulk density : 800 kg/m3

Partition coefficient:

n-octanol/water

: no data available

Auto-ignition temperature : Self ignition: not auto-flammable

Decomposition temperature : no data available

Viscosity :

Molecular weight : no data available

10. STABILITY AND REACTIVITY

Chemical stability &

Possibility of hazardous

reactions

Stable at normal temperatures and storage conditions.

Conditions to avoid : No information available.

Materials to avoid : 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

Eye/Skin contact: Refer to below subheading

Health hazard information



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Acute toxicity : STEWARD® 30WG:

Oral: LD50/rat male: 1,867 mg/kg LD50/rat female: 687 mg/kg

Inhalation: LC50/4 h/rat: > 5.6 mg/l

Dermal: LD50/rat: > 5,000 mg/kg

Skin corrosion/irritation : STEWARD® 30WG:

Species: rabbit

Result: No skin irritation

Serious eye damage/eye

irritation

STEWARD® 30WG:

Species: rabbit

Result: No eye irritation

Respiratory sensitization /

Skin sensitization

STEWARD® 30WG:

Species: guinea pig

Result: Animal test did not cause sensitization by skin contact.

Germ cell mutagenicity : Indoxacarb:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Did not cause genetic damage in animals.

Carcinogenicity : Indoxacarb:

Did not show carcinogenic effects in animal experiments.

Reproductive toxicity : Indoxacarb:

Animal testing did not show any effects on fertility.

Animal testing showed effects on embryo-fetal development at levels equal to or

above those causing maternal toxicity.

Specific Target Organs Toxicity (Single/Repeated) Refer to acute toxicity and/or repeated dose toxicity data for more information

on target organs if applicable.

Aspiration toxicity : no data available

Other : Indoxacarb:

Repeated dose toxicity: Inhalation, rat

Central nervous system effects, Incoordination, Increased mortality or reduced

survival, altered hematology



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Target Organs: Central nervous system, Blood Repeated dose toxicity: Oral, multiple species

altered hematology Target Organs: Blood

12. ECOLOGICAL INFORMATION

Toxicity on aquatic terrestrial organisms

Toxicity to fish : STEWARD® 30WG:

LC50/96 h/Oncorhynchus mykiss (rainbow trout): 1.8 mg/l

Other : STEWARD® 30WG:

EbC50/72 h/Pseudokirchneriella subcapitata (green algae): > 1.2 mg/l

EC50/48 h/Daphnia magna (Water flea): 1.7 mg/l

Persistence and

degradability

: no data available

Bioaccumulation : no data available

Mobility in soil : no data available

Other adverse effects : STEWARD® 30WG:

See product label for additional application instructions relating to environmental

precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. Refer to the product label for

instructions. Do not contaminate ponds, waterways or ditches with chemical or

used container.

Precautions for Disposal : Do not re-use empty containers.

14. TRANSPORT INFORMATION

IMDG

UN number : 3077

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

(Indoxacarb)

Class : 9
Packing group : III
Marine pollutant : yes

IATA

UN number : 3077

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

(Indoxacarb)

Class : 9



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Packing group : III

Matters needing attention

for transportation

not applicable

15. REGULATORY INFORMATION

Industrial Safety and Health Act

not regulated

Toxic 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

Sources of key data used to compile the Safety Data Sheet

US MSDS No.: M0000402

Issuing date : 2018.01.03

Number of revision times and

the date of preparation of the latest revision

2018.01.03

Version 3.2

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.