

# SAFETY DATA SHEET



## **Benevia®**

Version 1.0

Revision Date 08.01.2018

Document no. 130000050174

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

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

**Product name** : Benevia®

**Other names** : B12901515  
DPX- HGW86

**Recommended use of the chemical and restriction on use**

Recommended use : Insecticide

Restrictions on use : Do not use product for anything outside of the above specified uses.

**Manufacturer, importer, supplier, representative office**

Company : FMC INDIA PRIVATE LIMITED  
Street address : TCG Financial Centre, 2nd Floor C-53,  
Bandra Kurla Complex,  
Bandra (E), Mumbai, Bandra Suburban,  
Maharashtra- 400 098  
India

Emergency telephone : 022-6704 5504 /5404

### 2. HAZARDS IDENTIFICATION

**Product hazard classification**

Skin sensitisation : Category 1  
Specific target organ toxicity - repeated exposure : Category 2 (Respiratory system)

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

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

**Label content**

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure.  
(Respiratory system)  
Very toxic to aquatic life with long lasting effects.

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**Precautionary statements** : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
IF ON SKIN: Wash with plenty of water.  
Get medical advice/ attention if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Dispose of contents/ container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
Cyantraniliprole	736994-63-1	10.26 %
Fumed silica, crystalline-free	112945-52-5	1 - 5%
Other Ingredients		84.74 - 88.74%

### 4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person.  
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**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.

**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.

**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.

**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.

**Most important symptoms/effects, acute and delayed** : No information available.

**Protection of first-aiders** : No information available.

**Notes to physician** : No information available.

### 5. FIREFIGHTING MEASURES

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<b>Suitable extinguishing media</b>	: Water spray, Foam, Dry chemical, Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	: High volume water jet, (contamination risk)
<b>Specific hazards</b>	: The product is not flammable.
<b>Special protective equipment for firefighters</b>	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
<b>Specific extinguishing methods</b>	: No information available.
<b>Further information</b>	: Prevent fire extinguishing water from contaminating surface water or the ground water system. 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. (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**

<b>Personal precautions, protective equipment and emergency procedures</b>	: Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
<b>Environmental precautions</b>	: Prevent material from entering sewers, waterways, or low areas.
<b>Methods and materials for containment and cleaning up</b>	: Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
<b>Additional advice</b>	: 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	: The product is not flammable.

**Storage**

Suitable storage conditions	: Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. 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**

Applicable occupational exposure limits are listed below.

Chemical name	Occupational Exposure Limits	Regulation
Fumed silica, crystalline-free		
TWA	10 mg/m <sup>3</sup> (Total dust.)	IN OEL (2001)

**Engineering measures** : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

**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.

Hand protection : Material: Protective gloves

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

Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

**Hygiene measures** : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

**Protective measures** : 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, dispersion  
Colour : off-white

**Odour** : mild oily

**Odour Threshold** : No information available.

**pH** : 5.1 (10 g/l)

**Melting point/freezing point**

Melting point/range : Not applicable

**Initial boiling point and boiling range**

Boiling point/boiling range : 99 °C

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<b>Flash point</b>	:	No flash up to boiling point.
<b>Evaporation rate</b>	:	No information available.
<b>Flammability (solid, gas)</b>	:	The product is not flammable.
<b>Upper/lower flammability or explosive limits</b>		
Upper explosion limit	:	No information available.
Lower explosion limit	:	No information available.
<b>Vapour pressure</b>	:	No information available.
<b>Vapour density</b>	:	No information available.
<b>Density</b>		
Bulk density	:	0.9 - 1.1 g/cm <sup>3</sup>
<b>Solubility(ies)</b>		
Water solubility	:	dispersible
<b>Partition coefficient: n-octanol/water</b>	:	No information available.
<b>Auto-ignition temperature</b>		
Auto-ignition temperature	:	254 °C
<b>Decomposition temperature</b>	:	No information available.
<b>Viscosity</b>		
Viscosity, kinematic	:	No information available.
<b>Molecular weight</b>	:	No information available.

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	:	No information available.
<b>Chemical stability</b>	:	Stable at normal temperatures and storage conditions.
<b>Possibility of hazardous reactions</b>	:	No information available.
<b>Conditions to avoid</b>	:	Protect from frost.
<b>Materials to avoid</b>	:	No materials to be especially mentioned.
<b>Hazardous decomposition products</b>	:	No information available.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral

Benevia® : LD50/Rat: > 5,000 mg/kg

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Inhalation Benevia®	:	LC50/4 h/Rat(dust/mist): > 3.3 mg/l The substance or mixture has no acute inhalation toxicity
Dermal Benevia®	:	LD50/Rat: > 5,000 mg/kg
<b>Skin corrosion/irritation</b> Benevia®	:	Species: Rabbit Result: No skin irritation
<b>Serious eye damage/eye irritation</b> Benevia®	:	Species: Rabbit Result: No eye irritation
<b>Respiratory or skin sensitisation</b> Benevia®	:	Species: multiple species Result: May cause sensitisation by skin contact.
<b>Germ cell mutagenicity</b> Cyantranilprole	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
Fumed silica, crystalline-free	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
<b>Carcinogenicity</b> Cyantranilprole	:	Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
<b>Reproductive toxicity</b> Cyantranilprole	:	Reproductive toxicity: No toxicity to reproduction Animal testing showed no reproductive toxicity. Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Fumed silica, crystalline-free	:	Teratogenicity: Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.
<b>Specific Target Organ Toxicity</b> Specific target organ toxicity - single exposure		
Cyantranilprole	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
Fumed silica, crystalline-free	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity - repeated exposure		
Cyantranilprole	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Fumed silica, crystalline-free	:	Likely route of exposure: Inhalation Target Organs: Respiratory system
<b>Aspiration hazard</b> Benevia®	:	No aspiration toxicity classification

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**Other**

- Cyantraniliprole : Repeated dose toxicity:  
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  
Oral/Rat 28 - 90 d  
Thyroid effects, Organ weight changes, No effect to neurotoxicity.  
Dermal/Rat 28 d  
No toxicologically significant effects were found.  
Oral/Mouse 90 d  
No toxicologically significant effects were found.  
Oral/Dog 90 d  
altered blood chemistry, Liver effects, Vascular arteritis  
Oral/multiple species 28 d  
Immune System, No toxicologically significant effects were found.  
Oral/Rat 14 d  
No toxicologically significant effects were found.  
Oral/Dog 365 d  
Liver effects, Gallbladder effects, altered blood chemistry, Vascular arteritis  
Inhalation/Rat 28 d  
No toxicologically significant effects were found.
- Fumed silica, crystalline-free : Repeated dose toxicity:  
Inhalation/Rat 91 d dust/mist  
Respiratory effects, Information given is based on data obtained from similar substances.

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Acute and prolonged toxicity to fish

- Cyantraniliprole : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 12.6 mg/l  
LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 13 mg/l
- Fumed silica, crystalline-free : LC50/96 h/Danio rerio (zebra fish): > 10,000 mg/l  
Method: OECD Test Guideline 203

Toxicity to aquatic plants

- Cyantraniliprole : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 13 mg/l  
ErC50/7 d/Lemna gibba (duckweed): > 12.1 mg/l

Acute toxicity to aquatic invertebrates

- Benevia® : EC50/48 h/Daphnia magna (Water flea): 0.215 mg/l

Chronic toxicity to aquatic Invertebrates

- Cyantraniliprole : NOEC/21 d/Daphnia magna (Water flea): 0.00969 mg/l

**Persistence and degradability**

No information available.

**Bioaccumulation**

- Fumed silica, crystalline-free : Does not bioaccumulate.

**Mobility in soil**

No information available.

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### **Other adverse effects**

Benevia®

: See product label for additional application instructions relating to environmental precautions.

## **13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.

**Contaminated packaging** : Do not re-use empty containers.

## **14. TRANSPORT INFORMATION**

### **IMDG**

UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)  
Transport hazard class : 9  
Packing group : III  
Hazchem Code : .3Z  
Marine pollutant : yes

### **IATA**

UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)  
Transport hazard class : 9  
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

## **15. REGULATORY INFORMATION**

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

## **16. OTHER INFORMATION**

### **Sources of key data used to compile the Safety Data Sheet**

1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001
2. Manufacture, Storage and Import of Hazardous Chemical Rules 1989, as amended through January 2000

### **References**

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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.