

AGG10001Ef_01

SAFETY DATA SHEET

+1-800-424-9300 (USA)

Date: September 1, 2015 Serial No.: AGG10001Ef_01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME LX434 DINOTEFURAN 20SG

SYNONYM Tenchu 20SG

USE OF PRODUCT Insecticide

COMPANY IDENTIFICATION Mitsui Chemicals Agro, Inc. Nihonbashi Dia Building, 1-19-1, Nihonbashi, Chuo-ku, Tokyo 103-0027, JAPAN Telephone: +81-3-5290-2810 Telefax: +81-3-3231-1183

EMERGENCY TELEPHONE NUMBER Transportation (24 hr); CHEMTREC

+1-703-527-3887 (International) Health emergency; 6:30 AM to 4:30 PM Pacific time (PT) National Pesticides Information Center During other times Poison Control Center +1-800-222-1222

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE Physical hazards **Explosives** Not applicable Flammable gases Not applicable Flammable aerosols Not applicable Not applicable Oxidizing gases Gases under pressure Not applicable Flammable liquids Not applicable Flammable solids Not classified Self-reactive chemicals Not classified **Pyrophoric liquids** Not applicable Not classified Pyrophoric solids Self-heating chemicals Not classified Chemicals which, in contact with water, emit flammable gases Not classified Not applicable Oxidizing liquids Oxidizing solids Not classified Organic peroxides Not applicable Corrosive to metals Classification not possible Health hazards Acute toxicity Not classified. Oral Dermal Not classified Classification not possible Inhalation Skin corrosion/irritation Not classified Serious eye damage/eye irritation Not classified



Respiratory Sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity Single exposure Repeated exposure Aspiration Hazard

Aquatic hazard Acute Chronic

GHS LABEL ELEMENTS Hazard Pictograms Classification not possible Not classified Classification not possible Classification not possible Classification not possible

Classification not possible Category 1 (lung) Classification not possible

Not classified Category 1



Signal Word

Hazard Statements

H372: Causes damage to lung 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 hands and face thoroughly after handling.

- P270: Do not eat, drink or smoke when using this product.
- P273: Avoid release to the environment.

Response

P314: Get medical advice/attention if you feel unwell.

P391: Collect spillage.

Disposal

P501: Dispose of contents or container in accordance with local, regional, national and international regulations.

OTHER HAZARDS

Toxic to bees and silk worms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS No.
Dinotefuran (*)	20	165252-70-0
Amorphous silica	<10	112926-00-8
Sodium dodecylbenzene sulfonate	<10	25155-30-0
Inert ingredients	>60	-

* *N*-methyl-*N*'-nitro-*N*'-((tetrahydro-3-furyl)methyl)guanidine (*RS*)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Occupational exposure limits are, if available, listed in Section 8.

4. FIRST AID MEASURES

INGESTION

Call poison control center or doctor for treatments advice. Have person sip a glass of water if

able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

SKIN CONTACT

Take off contaminated clothing. 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. Call a poison control center or doctor for treatment advice.

5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Foam, dry chemical, CO₂, water, sand.

GENERAL HAZARD

Emits toxic fumes in fire condition. This product is not expected to burn or explode in normal conditions, but may burn violently if involved in fire. Dinotefuran is self-reactive under high temperature. Exposure to heat may promote violent decomposition.

HAZARDOUS COMBUSTION PRODUCTS Nitrogen oxides.

FIREFIGHTING INSTRUCTIONS

Keep unnecessary and unprotected personnel away. Shut off supply if possible. Remove containers to safe place if possible. Keep containers and surroundings cool by spraying with water. Fight fire from an upwind position.

FIREFIGHTING EQUIPMENT

Respiratory and eye protection is required for firefighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES

Warn and evacuate in the neighborhood as necessary. Keep unnecessary and unprotected personnel away. Wear appropriate personal protective equipment as specified in Section 8. Remove all sources of ignition. Stop leak if possible without personal risk.

ENVIRONMENTAL PRECAUTIONS

Do not let this product enter the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Scoop or sweep up the spilled product and place it in a disposal container. Use appropriate tools. Avoid dispersal of dust in the air.

7. HANDLING AND STORAGE

HANDLING

Technical Measures

Use only with adequate ventilation.

Where there may be potential of fire or explosion hazard, use explosion-proof electrical equipment and take precautions against build-up of electrostatic charges.



Wear appropriate personal protective equipment. Keep away from heat, sparks, open flames and hot surfaces.

Precautions

Handle with care. Do not breathe dust. Avoid contact with eyes, skin and clothing. Take precautionary measures against static discharge.

Advice on general occupational hygiene

Provide hand and eye wash station near work area. Wash hands thoroughly after use. Take off contaminated protective equipment before entering rest areas. Do not eat, drink or smoke when using this product.

STORAGE

Storage Conditions

Keep away from heat, flame and all sources of ignition. Store in a cool, dark and wellventilated area. Keep container tightly closed and sealed until ready for use. Do not contaminate other pesticides, fertilizers, water, foodstuffs or feed by storage and disposal.

Packaging Materials Fiber drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT VALUES [Amorphous silica]

OSHA-PEL: 80/(%SiO₂) mg/m³ ACGIH-TLV: 10 mg/m³ (as dust)

ENGINEERING CONTROLS

Provide general ventilation. Using of closed system or local exhaust ventilation is recommended. Provide safety shower and eye wash station near work area.

PERSONAL PROTECTION

Eye/face protection: Skin Protection:	Safety glasses, goggles, face shield.
Hand protection:	Chemical resistant gloves.
Body Protection:	Safety helmet, protective clothing, safety boots.
Respiratory protection:	Chemical cartridge respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White granule.
Odor:	Faint characteristic odor.
Odor threshold:	Not available
pH (24 °C):	6.2
Melting point:	Not available
Initial boiling point and boiling range:	Not applicable
Flash point:	Not available
Flammability:	Not flammable
Vapor pressure:	Not available
Vapor density:	Not available
Evaporation rate:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Explodability (22°C):	Not explosive
Minimum explosive concentration;	130 mg/L (humidity 58%)
Bulk density:	0.62
Solubilities:	Not available

Partition coefficient n-octanol/water: Viscosity:

Not available Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY Stable under normal conditions.

HAZARDOUS REACTIONS No hazardous reaction when handled and stored according to provisions.

CONDITIONS TO AVOID Heat, sources of ignition.

INCOMPATIBLE MATERIALS Not available.

HAZARDOUS DECOMPOSITION PRODUCTS Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation RabbitSlight Irritant[Not classified]Serious Eye Damage/Irritation RabbitMild irritant[Not classified]Respiratory SensitizationNot available[Classification not possible]Skin Sensitization Guinea pigNot a skin sensitizer.[Not classified]Mot a skin sensitizer.[Not classified]Mot available[Classification not possible]	Acute Toxicity Oral: Dermal: Inhalation:	Rat Rat Rat	LD ₅₀ >2000 mg/kg LD ₅₀ >2000 mg/kg LC ₅₀ >2.943 mg/L/4hr	[Not classified] [Not classified] [Classification not possible]
RabbitMild irritant[Not classified]Respiratory SensitizationNot available[Classification not possible]Skin Sensitization Guinea pigNot a skin sensitizer.[Not classified]		tation	Slight Irritant	[Not classified]
Skin Sensitization [Not a skin sensitizer. [Not classified]	•	age/Irritation	Mild irritant	[Not classified]
Guinea pig Not a skin sensitizer. [Not classified]	Respiratory Sens	sitization	Not available	[Classification not possible]
Germ Cell Mutagenicity Not available [Classification not possible]			Not a skin sensitizer.	[Not classified]
	Germ Cell Mutage	nicity	Not available	[Classification not possible]
Carcinogenicity Not available [Classification not possible]	Carcinogenicity		Not available	[Classification not possible]

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP or OSHA as a carcinogen.

Reproductive Toxicity	Not available	[Classification not possible]
Specific Target Organ Toxicity Single Exposure: Repeated Exposure:	Not available Contains amorphous silio	[Classification not possible] ca (category 1, lung) [Category 1 (lung)]
Aspiration Hazard	Not available	[Classification not possible]



12. ECOLOGICAL INFORMATION

HAZARDOUS TO THE AQUATIC ENVIRONMENT Acute: The ecotoxicological data does not meet the criteria. Chronic: Contains Dinotefuran. (category 1, M=10)

[Not classified] [Category 1]

ECOTOXICITY:

Carp	LC ₅₀ (96hr)	>100 mg/L
Rainbow trout	LC ₅₀ (96hr)	>108 mg/L
Daphnia magna	EC ₅₀ (48hr)	199 mg/L
Algae (Pseudokirchneriella	subcapitata)	-
	EC ₅₀ (72hr)	>100 mg/L
[Dinotefuran]		-
Chironomid (Chironomus rip	<i>parius</i> , water spiked st	tudy)
	NOEC (27d)	0.00288 mg/L

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAMINATED PACKAGING

Do not reuse or refill this container. Completely empty drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

9
UN3077
ENVIRONMENTALLY HAZARDOUS SUBSTANCE
SOLID, N.O.S. (Dinotefuran mixture)
III
Yes

SPECIAL PRECAUTIONS FOR TRANSPORT

Make sure that the containers have no puncture or leakage. Avoid rough handling and dropping. Prevent the collapse of cargo piles.

15. REGULATORY INFORMATION

UNITED STATES TARIFF CODE: 3808.91.50.00 FEDERAL REGULATIONS: EPA

This product is a pesticide (EPA Registration No. 86203-25) exempt from TSCA inventory.

Regulation under FIFRA

All pesticides are governed under FIFRA (Federal Insecticide, Fungicide and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulating facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

Hazard information as required on the pesticide label HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION



Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not dispose equipment washwaters or rinsate into a natural drain or water body.

This compound is toxic to honey bees. The persistence of residues and potential residual toxicity of Dinotefuran in nectar and pollen suggests the possibility of chronic toxic risk to honey bee larvae and the eventual instability of the hive.

CERCLA Reportable Quantity DODECYLBENZENE SULFONATE RQ: 1000lbs

SARA Title III

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES None. SECTION 311/312 HAZARD CATEGORIES Delayed health hazard SECTION 313 TOXIC CHEMICALS None.

STATE REGULATIONS

Each state may promulgate standards more stringent than the federal government. The user should consult state or local authorities.

CALIFORNIA PROPOSITION 65

This product contains no chemicals known to the state of California to cause cancer and reproductive toxicity.

Responsibility for compliance with applicable laws and regulations is with the user.

16. OTHER INFORMATION

References: In-house data

This SDS was prepared in compliance with USA OSHA Hazard Communication Standard (29 CFR 1910.1200)

To the best of our knowledge, the information contained herein is accurate.

However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.