

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17

Version: 8.0

Page: 1/14

(30487414/SDS_CPA_US/EN)

1. Identification

Product identifier used on the label

Duraplex TR Micro Total Release Insecticide

Recommended use of the chemical and restriction on use

Recommended use*: insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 414179
EPA Registration number: 499-405
Chemical family: organophosphates
Synonyms: Chlorpyrifos + cyfluthrin

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	3 (Inhalation - mist)	Acute toxicity
STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
Aquatic Acute	1	Hazardous to the aquatic environment - acute

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 2/14
(30487414/SDS_CPA_US/EN)

Aquatic Chronic	1	Hazardous to the aquatic environment - chronic
Flam. Aerosol	1	Flammable aerosols

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P261	Avoid breathing mist.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P311	Call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
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Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17

Page: 3/14

Version: 8.0

(30487414/SDS_CPA_US/EN)

2921-88-2	8.0 %	chlorpyrifos
68359-37-5	1.6 %	Cyfluthrin
67-63-0	25.0 - 50.0%	2-Propanol
68476-86-8	25.0 - 50.0%	Petroleum gases, liquefied, sweetened

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: inhibition of cholinesterase

weakness, muscular spasms, twitching, headache, tightness in the chest, difficulty breathing, shortness of breath, chest discomfort, disturbance of vision, nonreactive pinpoint pupils, salivation, nausea, vomiting, diarrhea, abdominal cramps, urination, perspiration

Hazards: Risk of decrease in cholinesterase activity. If poisoning is probable, treat the patient immediately. Treatment should be given simultaneously with decontamination procedures in severe cases. Proceed concurrently with decontamination using proper protective gear; for example, chemical resistant gloves (neoprene or nitrile) rather than cotton or leather gloves.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote:

Administer atropine. Pralidoxime chloride (2-PAM) is antidotal when administered early, and in conjunction with antidote.

Treatment:

Pralidoxime chloride (2-PAM, PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions. Before administering pralidoxime chloride, obtain a blood sample for cholinesterase analysis. Adjusting for age and weight, pralidoxime may be administered as a continuous infusion after a loading dose or using a bolus method. Clear airway and provide oxygen before administering atropine. Tissue oxygenation should be improved as much as possible before administering atropine, so as to minimize the risk of arrhythmia. Give atropine intravenously (IV), or if not immediately possible IV, through an alternative route such as an endotracheal tube or intramuscularly (IM). Give atropine intramuscularly or intravenously, depending on severity of poisoning. Atropine may be administered

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17

Version: 8.0

Page: 4/14

(30487414/SDS_CPA_US/EN)

through an alternative route such as an endotracheal tube. Avoid opiates, parasympthomimetic agents (e.g. succinylcholine), theophylline, reserpine and or phenothiazines. The dosage for atropine is as follows: 1 to 2 mg/kg initially IV in adults (or 0.05 mg/kg in children under 12 years) then give appropriate doses every 15 minutes until excessive secretions and sweating have been controlled. Use soap (preferably Tincture Green Soap) and water or dilute hypochlorite solution for decontaminating skin. Suction oral secretions and emesis to avoid aspiration. Artificial respiration or oxygen administration may be necessary. Observe patient continuously for at least 72 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, Hydrogen chloride, 2-(ethylthio)ethanol, hydrogen fluoride, sulfur oxides, Phosphorus compounds, mercaptans, toxic gases/vapours

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire. Vapours may form explosive mixture with air.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA ('Superfund').

Methods and material for containment and cleaning up

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 5/14
(30487414/SDS_CPA_US/EN)

Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

Storage stability:

Storage temperature: 100 °F

Do not store above indicated temperature for extended periods.

If substance/product crystallizes, thaw at room temperature.

Protect from temperatures above: 130 °F

Explosive at or above indicated temperature.

8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Components with occupational exposure limits

2-Propanol	OSHA PEL	PEL 400 ppm 980 mg/m ³ ; STEL value 500 ppm 1,225 mg/m ³ ; TWA value 400 ppm 980 mg/m ³ ;
	ACGIH TLV	STEL value 400 ppm ; TWA value 200 ppm ;
chlorpyrifos	OSHA PEL	SKIN_FINAL ; The substance can be absorbed through the skin. TWA value 0.2 mg/m ³ ;

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 6/14
(30487414/SDS_CPA_US/EN)

ACGIH TLV Skin Designation Inhalable fraction and vapor ;
The substance can be absorbed through the skin.
TWA value 0.1 mg/m³ Inhalable fraction and
vapor ;

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work.

9. Physical and Chemical Properties

Form:	aerosol	
Odour:	characteristic	
Odour threshold:	Not determined since toxic by inhalation.	
Colour:	light yellow	
pH value:	not applicable	
Melting point:	not applicable	
Flash point:	> -156 °C	
	Information applies to the propellant.	
Flammability of Aerosol Products:	> 18 in	(ASTM D 3065)
NFPA 30B flammability:	Level 3 Aerosol	

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17

Page: 7/14

Version: 8.0

(30487414/SDS_CPA_US/EN)

Lower explosion limit:	1.9 %(V) The product has not been tested. The statement has been derived from the properties of the individual components.	(air)
Upper explosion limit:	12 %(V) The product has not been tested. The statement has been derived from the properties of the individual components.	(air)
Autoignition:	425 °C Information applies to the solvent.	
Density:	approx. 0.86 g/cm ³ (approx. 20 °C)	
Vapour density:	approx. 2	
Partitioning coefficient n-octanol/water (log Pow):	The statements are based on the properties of the individual components.	
<i>Information on: Chlorpyrifos</i>		
Partitioning coefficient n-octanol/water (log Pow):	4.7	

Thermal decomposition:	carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, ethanethiol, hydrogen sulphide, 2-(ethylthio)ethanol, hydrogen fluoride Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.	
Viscosity, dynamic:	2.56 mPa.s (approx. 24 °C)	(ASTM D 2196)
Solubility in water:	not applicable	
Evaporation rate:	not applicable	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 8/14
(30487414/SDS_CPA_US/EN)

Incompatible materials

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, ethanethiol, hydrogen sulphide, 2-(ethylthio)ethanol, Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, ethanethiol, hydrogen sulphide, 2-(ethylthio)ethanol, hydrogen fluoride

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Of moderate toxicity after single ingestion. Of high toxicity after short-term inhalation. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat

Value: 340 - 920 mg/kg

Inhalation

Type of value: LC50

Species: rat

Value: 0.87 - 2.25 mg/l

Dermal

Type of value: LD50

Species: rabbit

Value: > 2,000 mg/kg

Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 9/14
(30487414/SDS_CPA_US/EN)

Assessment of irritating effects: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Not irritating to the skin. Not irritating to the eyes.

Skin

Species: rabbit
Result: non-irritant

Eye

Species: rabbit
Result: non-irritant

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

modified Buehler test

Species: guinea pig
Result: Skin sensitizing effects were not observed in animal studies.

Aspiration Hazard

The product has not been tested. The statement has been derived from the properties of the individual components. No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-Propanol

Assessment of repeated dose toxicity: No adverse effects were observed after repeated inhalative exposure in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information

Misuse can be harmful to health.

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 10/14
(30487414/SDS_CPA_US/EN)

Symptoms of Exposure

inhibition of cholinesterase
weakness, muscular spasms, twitching, headache, tightness in the chest, difficulty breathing, shortness of breath, chest discomfort, disturbance of vision, nonreactive pinpoint pupils, salivation, nausea, vomiting, diarrhea, abdominal cramps, urination, perspiration

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

Information on: Chlorpyrifos

LC50 (96 h) 3 µg/l, Oncorhynchus mykiss

No observed effect concentration (21 d) 1,7 µg /l, Oncorhynchus mykiss

Information on: CYFLUTHRIN Tech 98%

LC50 (96 h) 0.00047 mg/l, Oncorhynchus mykiss

Toxicity to fish

Information on: 2-Propanol

LC50 (96 h) 9,640 mg/l, Pimephales promelas (EPA 72-1, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. Literature data.

Aquatic invertebrates

Information on: Chlorpyrifos

EC50 (48 h) 0.0001 mg/l, Daphnia magna

Information on: CYFLUTHRIN Tech 98%

EC50 (48 h) 0.00016 mg/l, Daphnia magna

Aquatic invertebrates

Information on: 2-Propanol

LC50 (24 h) > 10,000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic plants

Information on: 2-Propanol

Toxic limit concentration (7 d) 1,800 mg/l, Scenedesmus quadricauda (other, static)

Literature data.

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 11/14
(30487414/SDS_CPA_US/EN)

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: Chlorpyrifos

Not readily biodegradable (by OECD criteria).

Information on: CYFLUTHRIN Tech 98%

According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment bioaccumulation potential

Information on: Chlorpyrifos

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Chlorpyrifos

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Information on: CYFLUTHRIN Tech 98%

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 12/14
(30487414/SDS_CPA_US/EN)

Container disposal:

Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

14. Transport Information

Land transport

USDOT

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1, EHSM
Proper shipping name: AEROSOLS (contains CIFLUTHRINE)

Sea transport

IMDG

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1, EHSM
Marine pollutant: YES
Proper shipping name: AEROSOLS (contains CIFLUTHRINE)

Air transport

IATA/ICAO

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1
Proper shipping name: AEROSOLS, FLAMMABLE (contains CIFLUTHRINE)

Further information

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

CERCLA RQ

100 LBS
1 LBS

CAS Number

67-63-0
2921-88-2

Chemical name

2-Propanol
chlorpyrifos

State regulations

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17
Version: 8.0

Page: 13/14
(30487414/SDS_CPA_US/EN)

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	2921-88-2	chlorpyrifos
	67-63-0	2-Propanol
MA	2921-88-2	chlorpyrifos
	67-63-0	2-Propanol
NJ	2921-88-2	chlorpyrifos
	67-63-0	2-Propanol
	68359-37-5	Cyfluthrin

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including CHLORPYRIFOS, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Labeling requirements under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

WARNING:
EXTREMELY FLAMMABLE.
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
May be fatal if swallowed.
HARMFUL IF INHALED.
HARMFUL IF ABSORBED THROUGH SKIN.
May cause moderate but temporary irritation to the eyes.
Avoid contact with the skin, eyes and clothing.

Avoid inhalation of mists/vapours.
Wash thoroughly after handling.
Aerosol container contains flammable gas under pressure.

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2018/04/17

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO

Safety Data Sheet

Duraplex TR Micro Total Release Insecticide

Revision date : 2018/04/17

Page: 14/14

Version: 8.0

(30487414/SDS_CPA_US/EN)

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