



Material Safety Data Sheet

Overture™ 35 WP Insecticide

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, and storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Overture™ 35 WP Insecticide
VC NUMBER(S): 1638
ITEM: 62120
SYNONYM(S): S-1812 35 WP
EPA REGISTRATION NUMBER: 59639-125

MANUFACTURER/DISTRIBUTOR
VALENT U.S.A. CORPORATION
P.O. Box 8025
1600 Riviera Avenue, Suite 200
Walnut Creek, CA 94596-8025.

EMERGENCY TELEPHONE NUMBERS
HEALTH EMERGENCY OR SPILL (24 hr.):
(800) 892-0099
TRANSPORTATION (24 hr.): CHEMTREC
(800) 424-9300 or (202) 483-7616.

PRODUCT INFORMATION
PROFESSIONAL PRODUCTS: (800) 898-2536 .

The current MSDS is available through our website or by calling the product information numbers listed above. (www.valent.com)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight/Percent	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	34-36	None.	None.	See regulated exposure limits.
Hydrated amorphous silica (7631-86-9).	37-40	10 mg/m ³ (total amorphous dust); 3 mg/m ³ (respirable nuisance particulate)	6 mg/m ³ (total dust)	See regulated exposure limits.
Kaolin clay (1332-58-7).	1.5-4	2 mg/m ³ TWA (respirable fraction)	15 mg/m ³ TWA 5 mg/m ³ TWA	None
Others ** (No CAS#).	20-27	None	None	None

* Active Ingredient.

** Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling (800) 892-0099 at any time.

Emergency Telephone: (800) 892-0099.
REVISION NUMBER: 1

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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW.

- CAUTION**
- May cause moderate eye irritation
 - Avoid contact with eyes or clothing
 - May cause brief and/or minor skin irritation
 - Keep out of reach of children

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure)

Signs and Symptoms of Systemic Effects: This product produced minimal toxicity in tests with animals even at very high doses.

Acute Eye Contact: This product can cause brief and/or minor eye irritation. The expected adverse health effects resulting from an exposure may include redness and possible swelling.

Acute Skin Contact: This product can cause brief and/or minor irritation. The expected adverse health effects resulting from an exposure may include redness and possibly some minor swelling. This product is minimally toxic when absorbed through the skin. This product is not expected to cause allergic skin reactions.

Acute Ingestion: This product is minimally toxic when ingested.

Acute Inhalation: This product is minimally toxic when inhaled. Exposure to high concentrations of dust may result in respiratory irritation. Signs and symptoms may include, but not be limited to, nasal discharge, sore throat, coughing and difficulty in breathing.

Chronic Toxicity (including cancer): Target organs following repeated exposure at high doses of pyridalyl technical in animal studies include the liver, kidney, ovary, lung, adrenal, heart, blood cells and thymus.

Treatment-related effects observed in the 2-year rat study at doses of 500 ppm or higher included increased motor activity, decreased body weight, body weight gain, food consumption and food efficiency, and changes in spleen color. No evidence of carcinogenicity was observed in rats. In an 18-month study in mice, decreased body weight, body weight gain and food consumption, and increased liver and kidney weights were observed at doses of 1000 ppm or higher. While a slight increase in lung tumors was observed in females in the 2500 ppm group, the incidence was within the historical control range and there were no indications of carcinogenic activity.

This product contains a type of amorphous silica. Inhalation of the dust may produce some or all of the following signs and symptoms: coughing, bronchial irritation, chest discomfort and shortness of breath. Repeated exposure to amorphous silica dust has caused impaired pulmonary function and morphological lung changes in monkeys. Under identical exposure conditions, rats and guinea pigs were unaffected by amorphous silica dust.

Developmental Toxicity (birth defects): Pyridalyl technical did not produce developmental effects in rats. In a study with rabbits, developmental effects were observed only at doses which produced maternal toxicity.

Reproductive Toxicity: Pyridalyl technical was tested in a 2-generation rat reproduction study. Effects on reproduction and the offspring were observed only at doses which produced general toxicity in the adults.

Potentially Aggravated Medical Conditions: Individuals with preexisting diseases of the liver, kidney or endocrine glands may have increased susceptibility to the toxicity of excessive exposures.

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11. For Regulatory Information, refer to Section 15.

4. FIRST AID MEASURES

EMERGENCY NUMBER (800) 892-0099

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

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 contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION:

Call a poison control center or doctor immediately for treatment 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, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

None.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLASH POINT METHOD: Not applicable

EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical

FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable

FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

NFPA RATING:

Health:	1.
Flammability:	1.
Reactivity:	0.
Special:	None.

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce: oxides of nitrogen and/or toxic chlorine compounds. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

VALENT EMERGENCY PHONE NUMBER: (800) 892-0099
CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300
OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

FOR SPILLS ON LAND:

CONTAINMENT: Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

CLEANUP: Clean up spill immediately. Vacuum or sweep up material and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

FOR SPILLS IN WATER:

CONTAINMENT: This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water.

CLEANUP: Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing.

Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EYES: Do not get this material in your eyes. Eye contact can be avoided by wearing safety glasses or goggles.

RESPIRATORY PROTECTION: Use this material only in well ventilated areas. If operating conditions result in airborne concentrations of this material, the use of an approved respirator is recommended.

SKIN PROTECTION: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves. Remove soiled clothing immediately and wash before re-use.

EXPOSURE LIMITS - See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Free-flowing powder
COLOR:	Gray
ODOR:	Faintly sweet, aromatic odor
MELTING POINT:	No data available
BULK DENSITY:	13.7 lb/ft ³

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9. PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	6.2 X 10 ⁻⁸ Pascal at 20°C (pyridalyl technical)
pH:	8.3; 1% suspension in water
CORROSION CHARACTERISTICS:	No data available
SOLUBILITY:	Dispersible in water

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal ambient temperatures.
INCOMPATIBILITY:	None known
OXIDATION/REDUCTION PROPERTIES:	Not reactive with water, monoammonium phosphate, zinc, and potassium permanganate.
EXPLODABILITY:	Not expected to be explosive.
HAZARDOUS DECOMPOSITION PRODUCTS:	No data available

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral Toxicity LD ₅₀ (rats).	> 5,000 mg/kg	EPA Tox Category	IV
Dermal Toxicity LD ₅₀ (rabbits).	> 5,000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats).	> 2.26 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits).	Moderately irritating	EPA Tox Category	III
Skin Irritation (rabbits).	Brief and/or minor irritation	EPA Tox Category	IV
Skin Sensitization (guinea pigs).	Non-sensitizer	EPA Tox Category	Not applicable

TOXICITY OF PYRIDALYL TECHNICAL

SUBCHRONIC: Effects on rats produced after 2 weeks of exposure to 7000 ppm pyridalyl technical included decreased body weight gain, increased leukocytes, increased serum cholesterol and other lipids, increased liver weight, and foamy or eosinophilic cells in the lungs. In a 4 week study in rats, increased serum lipids, decreased body weight gains, vacuolation of the adrenal and ovaries were observed at 700 ppm or higher. Compound related effects of pyridalyl technical noted in rats following 3-month exposures at dose levels of 1000 ppm or greater included effects on the liver, kidney, ovary, and lungs; decreased body weight gain; and changes in blood biochemistry. The NOEL in rats is 100 ppm. In a 3-month study at 3500 ppm, decreases in testosterone and estradiol were observed.

Compound related effects of pyridalyl technical noted in mice following 3-month exposures at dose levels of 700 ppm or greater included effects on the liver, kidney, adrenal and ovary; decreased hematocrit, hemoglobin and red blood cells; and other changes in blood biochemistry. The NOEL in mice is 70 ppm.

In a 3-month study in dogs, the effects produced at dose levels of 100 mg/kg/day or greater included changes in the lung, liver, kidney, adrenal, thymus and heart; decreased hemoglobin, hematocrit and red blood cells; decreased weight gain, clinical signs of toxicity and death (300 and 1000 mg/kg/day). The NOEL in dogs is 10 mg/kg/day.

CHRONIC/CARCINOGENICITY: Pyridalyl technical was tested in lifetime studies with mice and rats and in a one-year study with dogs. Treatment-related effects observed in the 2-year rat study at doses of 500 ppm or higher included increased motor activity, decreased body weight, body weight gain, food consumption and food efficiency, and changes in spleen color. The NOEL in the rat study was 100 ppm (3.40 mg/kg/day in males and 4.10 mg/kg/day in females) and no evidence of carcinogenicity was observed. In an 18-month study in mice, decreased body weight, body weight gain and food consumption, and increased liver and kidney weights were observed at doses of 1000 ppm or higher. While a slight increase in lung tumors was observed in females in the 2500 ppm group, the incidence was within historical control range and there were no indications of carcinogenic activity. The NOEL in mice was 50 ppm (male 5.04 mg/kg/day; female 4.78 mg/kg/day). Slight effects on the liver were observed in dogs exposed to 80 mg/kg/day for one year. The NOEL in dogs was 20 mg/kg/day.

DEVELOPMENTAL TOXICITY: In a developmental toxicity study of pyridalyl technical in rats, maternal toxicity was observed at doses of 50 and 250 mg/kg/day. The maternal NOEL was 10 mg/kg/day. Pyridalyl technical did not produce developmental effects in rats at doses up to 250 mg/kg/day. In a study with rabbits, maternal toxicity and developmental effects (decreased fetal weights) were observed at 150 mg/kg/day. The maternal and developmental NOELs in rabbits were 50 mg/kg/day.

REPRODUCTION: Pyridalyl technical was tested in a 2-generation rat reproduction study at doses of 40, 200 and 1000 ppm. The NOAEL for systemic toxicity in parental animals was 40 ppm based on decreased body weight, body weight gain and food consumption, increased testis, ovary, thyroid and lung weights, and histological changes in the thyroid and ovary at 200 ppm or higher. The NOAEL for reproductive effects was 40 ppm based on a delay in vaginal opening at 200 ppm and higher. The NOAEL for effects on the offspring was 40 ppm based on reduced mean body weights at 200 ppm and higher.

MUTAGENICITY: Pyridalyl technical was not mutagenic in the following in vitro assays: Ames Assay (gene mutation), HGPRT assay in CHO cells, and mouse micronucleus. It was positive in the in vitro chromosomal aberration assay. Pyridalyl technical was not mutagenic in the following in vivo assays: mouse micronucleus and unscheduled DNA synthesis.

TOXICITY OF OTHER INGREDIENTS:

This product contains a type of amorphous silica. Inhalation of the dust may produce some or all of the following signs and symptoms: coughing, bronchial irritation, chest discomfort and shortness of breath. Repeated exposure to amorphous silica dust has caused impaired pulmonary function and morphological lung changes in monkeys. Under identical exposure conditions, rats and guinea pigs were unaffected by amorphous silica dust.

IARC reviewed the data on amorphous silica in 1996 and concluded there was inadequate evidence from both epidemiology and experimental studies that amorphous silica is a carcinogenic risk factor. The organization concluded that amorphous silica is in Group 3.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 3. For information regarding regulations pertaining to this product, refer to Section 15.

12. ECOLOGICAL INFORMATION

AVIAN TOXICITY:

Based upon EPA designation, Pyridalyl Technical is practically non-toxic to mallard ducks and slightly toxic to bobwhite quail. Test results include:

Oral LD₅₀ bobwhite quail: >2,250 mg/kg
Dietary LC₅₀ bobwhite quail: 1,133 mg/kg
Dietary LC₅₀ mallard duck: > 5,620 mg/kg

AQUATIC ORGANISM TOXICITY: Based upon EPA designation, Pyridalyl technical is slightly to very highly toxic to fish and aquatic invertebrates. Test results include:

LC₅₀ (96 hr) Bluegill Sunfish: >24 mg/L
 LC₅₀ (96 hr) Rainbow Trout: 0.50 mg/L
 LC₅₀ (48 hr) Daphnia magna: 0.0038 mg/L
 LC₅₀ (96 hr) Mysid Shrimp: 0.001 mg/L
 EC₅₀ (96 hr) Oyster Shell Deposition: 0.82 mg/L
 EC₅₀ (96 hr) Green Algae: > 0.14 mg/L
 EC₅₀ (96 hr) Fresh Water Diatom: > 0.18 mg/L
 EC₅₀ (96 hr) Marine Diatom: > 0.12 mg/L
 EC₅₀ (7 day) Duckweed: > 0.17 mg/L

OTHER NON-TARGET ORGANISM TOXICITY: The contact LD₅₀ (48 hr) of Pyridalyl Technical to the honeybee is >25 µg/bee.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

DISPOSAL METHODS: Check government regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations. Do not contaminate water, food or feed by disposal.

14. TRANSPORT INFORMATION

DOT (ground) SHIPPING NAME: Pesticide, Solid, Non-regulated
DOT REPORTABLE QUANTITY (RQ): Not applicable
UN/NA NUMBER: Not applicable
HAZARD CLASS: Not applicable.
REMARKS: None

15. REGULATORY INFORMATION

PESTICIDE REGULATIONS: 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/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATIONS:

Chemical Name	RCRA - U Series Wastes	Clean Water Act - Hazardous Substances	Clean Water Act Section 307
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	None.	Not listed.	Not listed.
Hydrated amorphous silica (7631-86-9).	None.	Not listed.	Not listed.
Kaolin clay (1332-58-7).		Not listed.	Not listed.
Others ** (No CAS#).	None.	Not listed.	Not listed.

CWA Section 311: No data.

Chemical Name	SARA 313 Chemicals	SARA Section 302	CERCLA Reportable Quantity (RQ):
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	Not listed.	Not listed.	None.
Hydrated amorphous silica (7631-86-9).	Not listed.	Not listed.	None.
Kaolin clay (1332-58-7).	Not listed.	Not listed.	None.
Others ** (No CAS#).	Not listed.	Not listed.	None.

SARA (311, 312):

Immediate Health:	Yes.
Chronic Health:	Yes.
Fire:	No
Sudden Pressure:	No
Reactivity:	No

Chemical Name	IARC - Group 1 (carcinogenic to humans)	IARC - Group 2A (Probably carcinogenic)	IARC - Group 2B (Possibly carcinogenic)	NTP Carcinogen List
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	No.	No.	No.	Not listed.
Hydrated amorphous silica (7631-86-9).	No.	No.	No.	Not listed.
Kaolin clay (1332-58-7).	No.	No.	No.	Not listed.
Others ** (No CAS#).	No.	No.	No.	Not listed.

STATE REGULATIONS:

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 2 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above.

Chemical Name	California Proposition 65	California - Directors List of Hazardous Substances
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	Not listed.	Not listed.
Hydrated amorphous silica (7631-86-9).	Not listed.	Listed
Kaolin clay (1332-58-7).	Not listed.	Not listed.
Others ** (No CAS#).	Not Listed	Not Listed

Chemical Name	MI - Critical Materials List	MA Right To Know	NJ Right To Know
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	Not listed.	Not listed.	Listed
Hydrated amorphous silica (7631-86-9).	Not listed.	Listed	Listed
Kaolin clay (1332-58-7).	Not listed.	Listed	Not listed.
Others ** (No CAS#).	Not listed.	Not listed.	Not listed.

Chemical Name	PA Right To Know	RI Right To Know	MN Hazardous Substance
Pyridalyl (2-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-(trifluoromethyl)pyridine) * (179101-81-6).	Not listed.	Not listed.	Not listed.
Hydrated amorphous silica (7631-86-9).	Listed	Not listed.	Listed
Kaolin clay (1332-58-7).	Listed	Listed	Listed
Others ** (No CAS#).	Not listed.	Not listed.	Not listed.

CANADIAN REGULATIONS:

Emergency Telephone: (800) 892-0099.
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WHMIS Hazard Class: Not determined.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 3 and 11.

16. OTHER INFORMATION

REASON FOR ISSUE: New Product
MSDS NO.: 0378
EPA REGISTRATION NUMBER: 59639-125
REVISION NUMBER: 1
REVISION DATE: 06/06/2008
SUPERCEDES DATE: None.
RESPONSIBLE PERSON(S): Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803.

THE INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT VALENT U.S.A . CORPORATON TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

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