

40529

### SAFETY DATA SHEET

**GHS** 

United States

### Section 1. Product and company identification

Vanderbilt Chemicals, LLC

30 Winfield Street

**Product name THIATE® EF-2** In case of emergency

1-203-853-1400

Code Chemtrec: 1-800-424-9300

> Outside US: +1-703-527-3887

Norwalk, CT 06855

**Synonym** Blend of trimethylthiourea, silicon dioxide (crystal free) and calcium carbonate.

**Material uses** Accelerator. Powder. **Product type** 

#### Section 2. Hazards identification

**OSHA/HCS** status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the **COMBUSTIBLE DUSTS** 

ACUTE TOXICITY (oral) - Category 4 substance or mixture

EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

**GHS** label elements

**Hazard pictograms** 

Supplier/Manufacturer



Signal word

**Hazard statements** May form combustible dust concentrations in air.

Harmful if swallowed.

Causes serious eye irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

**Prevention** Wear protective gloves. Wear eye or face protection: Recommended: safety glasses

> with side-shields.. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not

be allowed out of the workplace.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse Response

mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Not applicable. **Storage** 

**Disposal** Dispose of contents and container in accordance with all local, regional, national and

international regulations.

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#### Section 2. Hazards identification

Supplemental label elements

Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

Hazards not otherwise classified

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

### Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	CAS number	% by weight
trimethylthiourea silica (non crystalline) carbonic acid calcium salt (1:1)	2489-77-2 7631-86-9 471-34-1	95 3 2

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

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** Causes serious eye irritation.

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits

may cause irritation of the nose, throat and lungs.

**Skin contact** May cause an allergic skin reaction.

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#### Section 4. First aid measures

**Ingestion** Harmful if swallowed.

Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** Adverse symptoms may include the following:

irritation redness

**Ingestion** No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** No specific treatment.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing

media

Unsuitable extinguishing

media

In case of fire, use water spray (fog), foam, dry chemical or CO2.

Avoid high pressure media which could cause the formation of a potentially explosible

dust-air mixture.

Specific hazards arising

from the chemical

Hazardous thermal decomposition products

May form explosible dust-air mixture if dispersed.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions

for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

equipment for fire-fighters

Remark

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Can generate flammable and potentially explosive vapors at high temperatures.

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### Section 5. Fire-fighting measures

Remark(s)

As with any dry material, pouring or allowing to free-fall or to be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or of any flammable materials which may come in contact with the material or its container.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

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### Section 7. Handling and storage

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
carbonic acid calcium salt (1:1)	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
silica (non crystalline)	RQMT (United States, 1994).
	TWA: 6 mg/m³
	NIOSH REL (United States, 10/2013).
	TWA: 6 mg/m³ 10 hours.

# Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: safety glasses with side-shields.

#### **Skin protection**

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### Section 8. Exposure controls/personal protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Body protection Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product. Recommended: lab coat

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection** Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use. Recommended: Dust respirator.

Personal protective equipment (Pictograms)



### Section 9. Physical and chemical properties

**Appearance** 

Physical state Solid. [Powder.]

Color White.
Odor Odorless.
Odor threshold Not available.
pH Not available.

Melting point 77 to 87°C (170.6 to 188.6°F)

Boiling point 164°C (327.2°F)
Flash point Not available.
Burning time Not available.
Burning rate Not available.
Evaporation rate Not available.

Flammability (solid, gas) Can generate flammable and potentially explosive vapors at high temperatures.

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressure Not available.
Vapor density Not available.

**Density** 1.25 g/cm³ [25°C (77°F)]

Relative density 1.25

**Solubility** Partially soluble in the following materials: acetone.

Insoluble in the following materials: cold water.

Solubility in water Not available.

Partition coefficient: n-

octanol/water

**Auto-ignition temperature** Not available.

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### Section 9. Physical and chemical properties

**Decomposition temperature SADT** 

Not available.

Viscosity

Not available.

### Section 10. Stability and reactivity

**Reactivity**No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**Avoid the creation of dust when handling and avoid all possible sources of ignition

(spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust

accumulation.

**Incompatible materials** Reactive or incompatible with the following materials:

oxidizing materials

strong acids

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
trimethylthiourea	LD50 Oral	Rat	316 mg/kg	-
silica (non crystalline)	LD50 Dermal	Rabbit	>2000 mg/kg	_
,	LD50 Oral	Rat	>5000 mg/kg	_
carbonic acid calcium salt (1: 1)	LC50 Inhalation Dusts and mists	Rat	>3 mg/l	4 hours
•	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

#### **Irritation/Corrosion**

Not available.

#### **Conclusion/Summary**

**Eyes** trimethylthiourea: Causes moderate to severe irritation.

**Sensitization** 

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### **Section 11. Toxicological information**

3	Route of exposure	Species	Result
silica (non crystalline)	skin	Guinea pig	Not sensitizing

#### **Conclusion/Summary**

**Skin** trimethylthiourea: May cause skin sensitization.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
silica (non crystalline)	-	Subject: Mammalian-Animal	Negative

#### **Carcinogenicity**

Not available.

**Conclusion/Summary** 

trimethylthiourea: As a result of dietary administratin of 250-1,000 mg/kg for 77 weeks to male and female rats or mice, although the tumor was observed in the thyroid gland of the female rat, it was reported that enough evidence to prove the carcinogenicity of this material was not provided.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

Not available.

#### Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Skin contact May be harmful in contact with skin. Causes mild skin irritation. May cause an

allergic skin reaction.

**Ingestion** Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

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### **Section 11. Toxicological information**

**Eye contact** Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** Adverse symptoms may include the following:

irritation redness

**Ingestion** No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

Not available.

effects

Potential delayed effects N

Not available.

Long term exposure

**Potential immediate** 

Not available.

effects

**Potential delayed effects** 

Not available.

Potential chronic health effects

Not available.

**General** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Dermal	4166.7 mg/kg

Other information Not available.

### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
, , ,	Acute EC50 7600 mg/l	Daphnia	48 hours
	Acute LC50 5000 mg/l	Fish	96 hours

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### Section 12. Ecological information

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
trimethylthiourea	0.1	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\*: Packing group

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### Section 15. Regulatory information

**United States inventory (TSCA 8b)** All components are listed or exempted.

**U.S. Federal regulations** 

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

#### **SARA 302/304**

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** Not applicable.

**SARA 311/312** 

Classification COMBUSTIBLE DUSTS

> ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

#### **Composition/information on ingredients**

Name	%	Classification
trimethylthiourea		ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

#### State regulations

**Massachusetts** The following components are listed: TRIMETHYLTHIOUREA; DIATOMACEOUS

EARTH; AMORPHOUS SILICA; calcium carbonate

**New York** None of the components are listed. None of the components are listed. **New Jersey** 

The following components are listed: SILICA; calcium carbonate **Pennsylvania** 

California Prop. 65 None of the components are listed.

#### **International regulations**

**Australia inventory (AICS)** All components are listed or exempted. **Canada inventory** All components are listed or exempted. **China inventory (IECSC)** All components are listed or exempted. **Europe inventory** All components are listed or exempted. **Japan inventory (ENCS)** All components are listed or exempted. Korea inventory (KECI) At least one component is not listed. **New Zealand Inventory of Chemicals** All components are listed or exempted.

(NZIoC)

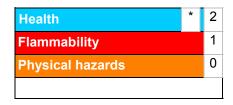
**Philippines inventory (PICCS)** At least one component is not listed. **Taiwan Chemical Substances** All components are listed or exempted.

**Inventory (TCSI)** 

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#### Section 16. Other information

**Hazardous Material Identification System (U.S.A.)** 



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 



Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

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Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References Not available.

Information contact Vanderbilt Global Services, LLC

**Corporate Risk Management** 

1-203-295-2143

Visit www.vanderbiltchemicals.com for more information.

#### Notice to reader

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## Section 16. Other information

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