# **GE** Healthcare

# **SAFETY DATA SHEET**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Switzerland

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Loading Dye; part of 'Thermo Sequenase™

Fluorescent Labelled Primer Cycle Sequencing Kit

with 7-deaza-dGTP'

Catalogue Number RPN2551

Component Number NIF1643

Product descriptionNot available.Product typeLiquid.Other means of identificationNot available.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Research and Development Analytical reagent. Analytical chemistry.

### 1.3 Details of the supplier of the safety data sheet

SupplierGE Healthcare UK LtdHours of operationAmersham Place08.30 - 17.00

Little Chalfont

Buckinghamshire HP7 9NA

England

+44 0870 606 1921

Person who prepared the MSDS: msdslifesciences@ge.com

1.4 Emergency telephone number

**Switzerland** GE Healthcare Bio-Sciences GmbH

Industriestr. 30 CH-8112 Otelfingen

Healthcare Bio-Sciences GmbH 0848 8028 12

### National advisory body/Poison Centre

Switzerland Centre Suisse d'Information Toxicologique

(Swiss Toxicological Information Centre)

Freiestrasse 16 CH-8032 Zurich

Telephone: +41 44 251 66 66

Emergency telephone: +41 44 251 51 51 (145 from within Switzerland and Liechtenstein)

Fax: +41 44 252 88 33 E-mail: info@toxi.ch Web site: http://www.toxi.ch

Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]



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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319 Repr. 1B, H360D

Ingredients of unknown toxicity

Ingredients of unknown ecotoxicity Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment:

95%

### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Repr. Cat. 2; R61

Human health hazards May cause harm to the unborn child.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

#### Hazard pictograms





Signal word Danger

**Hazard statements** Causes serious eye irritation.

May damage the unborn child.

**Precautionary statements** 

**Prevention** Obtain special instructions before use. Use personal protective equipment as required. Wear eye or face

protection.

**Response** IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with water for several

minutes.

StorageStore locked up.DisposalNot applicable.Hazardous ingredientsformamideSupplemental label elementsNot applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Other hazards which do not result Not available.

in classification

# SECTION 3: Composition/information on ingredients

Substance/mixture Mixture



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			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
formamide	EC: 200-842-0 CAS: 75-12-7 Index: 616-052-00-8	>=90	Repr. Cat. 2; R61	Eye Irrit. 2, H319 Repr. 1B, H360D	[1] [2]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

# SECTION 4: First aid measures

#### 4.1 Description of 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 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** Flush contaminated skin with plenty of 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. 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. 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.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

### 4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

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

pain or irritation watering redness

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

reduced foetal weight increase in foetal deaths skeletal malformations



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Skin contact Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Adverse symptoms may include the following: Ingestion

reduced foetal weight increase in foetal deaths skeletal malformations

#### 4.3 Indication of any immediate medical attention and special treatment needed

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.

No specific treatment. Specific treatments

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** 

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

5.3 Advice for firefighters

Special precautions for fire-

fiahters

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.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level

of protection for chemical incidents.

#### SECTION 6: Accidental release measures

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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding For non-emergency personnel

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator

when ventilation is inadequate. Put on appropriate personal protective equipment.

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

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform 6.2 Environmental precautions

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# 6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Small spill

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent Large spill

entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency

contact information and section 13 for waste disposal.

6.4 Reference to other sections See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.



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# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

**Recommendations** Research and Development Analytical reagent. Analytical chemistry.

Industrial sector specific solutions Not available.

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
formamide	SUVA (Switzerland, 1/2009). Absorbed through skin. Notes: not temporary TWA: 18 mg/m³ 8 hour(s). TWA: 10 ppm 8 hour(s).

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### Derived effect levels

No DELs available.

### **Predicted effect concentrations**

No PECs available.

### 8.2 Exposure controls

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapour 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.

#### 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. 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.

## Skin 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.

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.

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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

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk Respiratory protection

assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the **Environmental exposure controls** 

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

# SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state Liquid. Red. Colour

Odour Ammoniacal. 100 ppm Odour threshold Not available. pΗ Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Flash point Closed cup: >93.3°C Not available. **Evaporation rate** 

Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts, Flammability (solid, gas)

oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis

and moisture

Not applicable. **Burning time** Not applicable. **Burning rate** Not available

Upper/lower flammability or

explosive limits

Not available Vapour pressure Not available Vapour density Not available. Relative density

Solubility(ies) Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity Not available.

Non-explosive in the presence of the following materials or conditions: open flames, sparks and static **Explosive properties** 

discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible

materials, organic materials, metals, acids, alkalis and moisture.

Oxidising properties Not available.

# 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

The product is stable. 10.2 Chemical stability

10.3 Possibility of hazardous

reactions

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

10.4 Conditions to avoid No specific data. No specific data 10.5 Incompatible materials



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10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
formamide	LD50 Dermal LD50 Oral	Rabbit Rat	17 g/kg 4000 mg/kg	-

Conclusion/Summary

Not available.

**Acute toxicity estimates** 

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
formamide	Eyes - Severe irritant	Rabbit	-	-	-

Conclusion/Summary

Not available.

Sensitiser

Conclusion/Summary

Not available.

**Mutagenicity** 

Not available.

Carcinogenicity

Conclusion/Summary

Conclusion/Summary

Not available

Reproductive toxicity

Conclusion/Summary

Not available.

**Teratogenicity** 

Conclusion/Summary 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 Not available.

exposure

Inhalation

### Potential acute health effects

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed Inhalation

following exposure.

Irritating to mouth, throat and stomach. Ingestion No known significant effects or critical hazards. Skin contact

Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Adverse symptoms may include the following: Ingestion

reduced foetal weight increase in foetal deaths skeletal malformations



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 $\label{thm:conding} \mbox{Loading Dye; part of 'Thermo Sequenase'} \mbox{Fluorescent Labelled Primer Cycle Sequencing Kit with 7-deaza-dGTP'}$ 

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

reduced foetal weight increase in foetal deaths skeletal malformations

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

pain or irritation watering redness

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

Short term exposure

Potential immediate effects Not available.

Potential delayed effects

Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects

Not available.

Potential chronic health effects

Not available.

Conclusion/Summary Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.

**Teratogenicity** May damage the unborn child.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Other information Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Conclusion/Summary Not available.

### 12.2 Persistence and degradability

Conclusion/Summary Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
formamide	-	-	Not readily

### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{\text{oc}}$  Not available.

)

Mobility Not available.

# 12.5 Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

**12.6 Other adverse effects** No known significant effects or critical hazards.



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# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Significant quantities of

waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

**Hazardous waste** The classification of the product may meet the criteria for a hazardous waste.

**Packaging** 

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Waste packaging should be

recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 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 spilt material and runoff and contact with soil, waterways,

drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

14.7 Transport in bulk according to Annex II of MARPOL

Not available.

73/78 and the IBC Code

# SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Restricted to professional users.

Other EU regulations

**Europe inventory** All components are listed or exempted.



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**Black List Chemicals** Not listed **Priority List Chemicals** Not listed Integrated pollution prevention Not listed and control list (IPPC) - Air

Integrated pollution prevention

Not listed

and control list (IPPC) - Water

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
formamide	-	-	Repr. 1B, H360D	-

#### National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
formamide	Switzerland Occupational	Formamid	Listed	-
	Exposure Limits			

VOC content Liberated.

International regulations

**Chemical Weapons Convention** List Schedule I Chemicals

Not listed

**Chemical Weapons Convention** List Schedule II Chemicals

Not listed

**Chemical Weapons Convention** List Schedule III Chemicals

Not listed

15.2 Chemical Safety

Assessment

This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (Regulation (EC) No. 1272/2008)

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319 Repr. 1B, H360D	Calculation method Calculation method

Full text of abbreviated H H319 Causes serious eye irritation. H360D May damage the unborn child. statements

Full text of classifications Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Repr. 1B, H360D TOXIC TO REPRODUCTION [Unborn child] - Category 1B [CLP/GHS]

Full text of abbreviated R phrases R61- May cause harm to the unborn child.

Full text of classifications

[DSD/DPD]

Repr. Cat. 2 - Toxic to reproduction category 2

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Date of previous issue No previous validation

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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes 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.



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