

# Fleetguard Restore Plus - Acid Cooling System Cleaner

#### Fleetguard

Chemwatch Hazard Alert Code: 2

Chemwatch: 45125 Version No: 4.1.1.1

Material Safety Data Sheet according to NOHSC and ADG requirements

Issue Date: 01/01/2013
Print Date: 27/08/2014
Initial Date: Not Available
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## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Fleetguard Restore Plus - Acid Cooling System Cleaner
Chemical Name	Not Applicable
Synonyms	Restore Plus - Acid Cooling System Cleaner, inhibited acid radiator cleaning treatment concentrate
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Available
CAS number	Not Applicable

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

Relevant identified uses	Radiator cleaner for removing heavy rust and scale, oil contaminates and fuel contaminants.
uses	

### Details of the manufacturer/importer

Registered company	Fleetguard
Address	31 Garden Street Kilsyth 3137 VIC Australia
Telephone	+61 3 9721 9100
Fax	+61 3 9721 9148
Website	Not Available
Email	Not Available

## Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 3 9573 3112
Other emergency telephone numbers	+61 3 9573 3112

### CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
1800 039 008	+612 9186 1132	Not Available

Once connected and if the message is not in your prefered language then please dial 01

## **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

CHEMWATCH HAZARD RATINGS

### Fleetguard Restore Plus - Acid Cooling System Cleaner

	Min	Max	
Flammability	0	!	
Toxicity	0	:	0 = Minimun
Body Contact	2	1	1 = Low
Reactivity	0		2 = Moderate 3 = High
Chronic	0		4 = Extreme

### Label elements

Not Applicable

Relevant risk statements are found in section 2

Poisons Schedule	Not Applicable		
Risk Phrases	Not Applicable		
Legend:	Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		
Indication(s) of danger	Not Applicable		
SAFETY ADVICE			
Not Applicable			
Other hazards			
	May produce discomfort of the eyes, respiratory tract and skin*.		
	Cumulative effects may result following exposure*.		

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

## Mixtures

CAS No %[weight] Name					
7664-38-2	1-2	phosphoric acid			
	NotSpec.	additives, non hazardous			
7732-18-5	>60	water			

## **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

-	
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs:  ► Immediately remove all contaminated clothing, including footwear.  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

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xtinguishing media	The state of the s
	The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.  Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.
	In such an event consider:
	► foam.
pecial hazards arisin	g from the substrate or mixture
Fire Incompatibility	None known.
Advice for firefighters	
	▶ Alert Fire Brigade and tell them location and nature of hazard.
Ptu Ptublina	Wear breathing apparatus plus protective gloves in the event of a fire.
Fire Fighting	▶ Prevent, by any means available, spillage from entering drains or water courses.
	▶ Use fire fighting procedures suitable for surrounding area.
	► Non combustible.
Fire/Explosion Hazard	<ul> <li>Not considered to be a significant fire risk.</li> <li>Expansion or decomposition on heating may lead to violent rupture of containers.</li> </ul>
	► Expansion or decomposition on reading may lead to which repute of contamend.  ► Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
4.1.2 × 1.1.5	
SECTION 6 ACCIDENTA	L RELEASE MEASURES
Personal precautions	, protective equipment and emergency procedures
	▶ Clean up all spills immediately.
Minor Spills	► Avoid breathing vapours and contact with skin and eyes.
	<ul> <li>▶ Control personal contact with the substance, by using protective equipment.</li> <li>▶ Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
	Moderate hazard.
nest-collin	▶ Clear area of personnel and move upwind.
Major Spills	▶ Alert Fire Brigade and tell them location and nature of hazard.
	▶ Wear breathing apparatus plus protective gloves.
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.
	Personal Protective Equipment advice is contained in Section 6 of the MOSS.
SECTION 7 HANDLING	AND STORAGE
Precautions for safe	handling
	▶ Avoid all personal contact, including inhalation.
	▶ Wear protective clothing when risk of exposure occurs.
Safe handling	▶ Use in a well-ventilated area.
	► Avoid contact with moisture.
	▶ Store in original containers.
Other information	► Keep containers securely sealed.
Caro, mormanon	<ul> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>
	• Store away from incompanile materials and rootstan containers.
Conditions for safe s	torage, including any incompatibilities
	▶ Polyethylene or polypropylene container.
Suitable container	Packing as recommended by manufacturer.
	▶ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

### Fleetguard Restore Plus - Acid Cooling System Cleaner

INGREDIENT DATA Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	phosphoric acid	Phosphoric acid	1 mg/m3	3 mg/m3	Not Available	Not Available
EMERGENCY LIMITS						
Ingredient	TEEL-0	TEEL-1		TEEL-2	T	EEL-3
Fleetguard Restore Plus - Acid Cooling System Cleaner	Not Available	Not Available	1	Not Available	N	ot Available
Ingredient	Original IDLH			Revised IDLH		
phosphoric acid	10,000 mg/m3			1,000 mg/m3		
water	Not Available	11 to 11 to 12	Annual Annua	Not Available		
Appropriate engineering controls	Process controls w Enclosure and/or is	engineering controls are: hich involve changing the olation of emission source tegically "adds" and "remo	which keeps a s	elected hazard "pl	ne to reduce the ri nysically" away fro	sk. m the worker and
Personal protection						
Eye and face protection	➤ Safety glasses ➤ Chemical goggl ➤ Contact lenses document, desc		rd; soft contact le es or restrictions	enses may absorb on use, should be	and concentrate ir created for each v	ritants. A written policy vorkplace or task.
Skin protection	See Hand protectio	See Hand protection below				
Hands/feet protection		<ul> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>				
Body protection	See Other protection	See Other protection below				
Other protection	<ul><li>▶ Overalls.</li><li>▶ P.V.C. apron.</li><li>▶ Barrier cream.</li></ul>					

#### Recommended material(s)

Thermal hazards

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer-generated selection:

Not Available

Fleetguard Restore Plus - Acid Cooling System Cleaner

Material	CPI
NEOPRENE	Α

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion NOTE: As a series of factors will influence the actual performance of the

glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 1,49:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	B-AUS P2	-	B-PAPR-AUS / Class 1 P2
up to 50 x ES	•	B-AUS / Class 1 P2	-
up to 100 x ES	-	B-2 P2	B-PAPR-2 P2 ^

### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low

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### Fleetguard Restore Plus - Acid Cooling System Cleaner

boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		
Appearance	Clear acidic liquid with little or no odour; mixes with water.	

Appearance	Clear acidic liquid with little or n	o odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.11-1.13	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	2.5-3.0	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	104	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	Not Available	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Available	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	50	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water (g/L)	Miscible	pH as a solution(1%)	Not Available	
Vapour density (Air = 1)	>1	VOC g/L	Not Available	

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials.  Product is considered stable.  Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Inhaled

	Not normally a hazard due to non-volatile nature of product
	Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a
	significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical
2	insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to
e de la composito	protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the
200	impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory
	response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

## Ingestion

The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of

### Fleetguard Restore Plus - Acid Cooling System Cleaner

	ill-health).	enerally based on doses producing mortality	
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
Eye	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
Chronic	Long-term exposure to the produ Directives using animal models);	uct is not thought to produce chronic effects a nevertheless exposure by all routes should b	dverse to health (as classified by EC be minimised as a matter of course.
Fleetguard Restore	TOXICITY	RRITATION	
Plus - Acid Cooling System Cleaner	Not Available	Not Available	
	TOXICITY	IRRITATION	
jedina operatio Websterofolder (1996)	Dermal (rabbit) LD50: >1260 mg/kg*	[Monsanto]*	
	Inhalation (Mouse) LC50: 25.5 mg/m3/4h	Eye (rabbit): 119 mg - SEVERE	
phosphoric acid	Inhalation (Rat) LC50: 25.5 mg/m3/4h	Skin (rabbit):595 mg/24h - SEVERE	
	Oral (rat) LD50: 1530 mg/kg		
	Oral (rat) LD50: 3500 mg/kg*		
	Cital (rat) LD00. 0000 mg/kg	1	
	Not Available	Not Available	
	Not Available	Not Available	
water	f	i Of hately and all the early leading and a particular to the particular of the part	
water lot available. Refer to indi	Not Available  TOXICITY  Not Available	IRRITATION	
	Not Available  TOXICITY  Not Available  ividual constituents.  No significant acute toxicological for acid mists, aerosols, vapor Data from assays for genotox the pH falls to about 6.5. Cells protect the cells of the airways	IRRITATION  Not Available  cal data identified in literature search.  burs ic activity in vitro suggest that eukaryotic cell	amined in this respect. Mucous secretion may
lot available. Refer to indi	Not Available  TOXICITY  Not Available  ividual constituents.  No significant acute toxicologic for acid mists, aerosols, vapor Data from assays for genotox the pH falls to about 6.5. Cells protect the cells of the airways protecting the gastric epitheliu phosphoric acid ( 85%)	IRRITATION  Not Available  cal data identified in literature search.  burs ic activity in vitro suggest that eukaryotic cell as from the respiratory tract have not been exa	amined in this respect. Mucous secretion may
lot available. Refer to indi	Not Available  TOXICITY  Not Available  ividual constituents.  No significant acute toxicologic for acid mists, aerosols, vapor Data from assays for genotox the pH falls to about 6.5. Cells protect the cells of the airways protecting the gastric epitheliu phosphoric acid ( 85%)	IRRITATION  Not Available  cal data identified in literature search.  burs ic activity in vitro suggest that eukaryotic cells from the respiratory tract have not been exa from direct exposure to inhaled acidic mists um from its auto-secreted hydrochloric acid.	amined in this respect. Mucous secretion may
lot available. Refer to indi PHOSPHORIC ACID WATER	Not Available  TOXICITY  Not Available  Ividual constituents.  No significant acute toxicologic for acid mists, aerosols, vapor Data from assays for genotox the pH falls to about 6.5. Cells protect the cells of the airways protecting the gastric epitheliu phosphoric acid ( 85%)  No significant acute toxicologic	IRRITATION  Not Available  cal data identified in literature search.  burs ic activity in vitro suggest that eukaryotic cell s from the respiratory tract have not been exa s from direct exposure to inhaled acidic mists im from its auto-secreted hydrochloric acid.  cal data identified in literature search.	amined in this respect. Mucous secretion may i, just as mucous plays an important role in
PHOSPHORIC ACID  WATER  Acute Toxicity  Skin	Not Available  TOXICITY  Not Available  Vidual constituents.  No significant acute toxicologic for acid mists, aerosols, vapod Data from assays for genotox the pH falls to about 6.5. Cells protect the cells of the airways protecting the gastric epitheliu phosphoric acid ( 85%)  No significant acute toxicologic	IRRITATION  Not Available  cal data identified in literature search.  Durs ic activity in vitro suggest that eukaryotic cells is from the respiratory tract have not been exa is from direct exposure to inhaled acidic mists im from its auto-secreted hydrochloric acid.  cal data identified in literature search.  Carcinogenicity	amined in this respect. Mucous secretion may , just as mucous plays an important role in
PHOSPHORIC ACID  WATER  Acute Toxicity Skin Irritation/Corrosion Serious Eye	Not Available  TOXICITY  Not Available  Ividual constituents.  No significant acute toxicologic for acid mists, aerosols, vapor Data from assays for genotox the pH falls to about 6.5. Cells protect the cells of the airways protecting the gastric epitheliu phosphoric acid ( 85%)  No significant acute toxicologic	IRRITATION  Not Available  cal data identified in literature search.  ours ic activity in vitro suggest that eukaryotic cell s from the respiratory tract have not been exe s from direct exposure to inhaled acidic mists am from its auto-secreted hydrochloric acid.  cal data identified in literature search.  Carcinogenicity  Reproductivity  STOT - Single	amined in this respect. Mucous secretion may , just as mucous plays an important role in

Legend:

- → Data required to make classification available
- ★ Data available but does not fill the criteria for classification
- ♦ Data Not Available to make classification

## **CMR STATUS**

Not Applicable

## SECTION 12 ECOLOGICAL INFORMATION

**Toxicity** 

Persistence and degradability

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#### Fleetguard Restore Plus - Acid Cooling System Cleaner

Ingredient	Persistence: Water/Soil	Persistence: Air
Not Available	Not Available	Not Available
Bioaccumulative poter	ntial	
Ingredient	Bioaccumulation	
Not Available	Not Available	
Mobility in soil Ingredient  Not Available	Mobility  Not Available	
SECTION 13 DISPOSAL	CONSIDERATIONS	
Waste treatment met	hods	
Product / Packaging disposal	suitable treatment or disposal facility can be id	cenced to accept chemical and / or pharmaceutical wastes or incineration in

### **SECTION 14 TRANSPORT INFORMATION**

## Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category	
IMO MARPOL 73/78 (Annex II) - List of			
Noxious Liquid	phosphoric acid	z	
Substances Carried in		İ	
Bulk			

#### **SECTION 15 REGULATORY INFORMATION**

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

phosphoric acid(7664-38-2) is found on the following regulatory lists "Joint FAO/WHO Expert Committee on Food Additives (JECFA) Compendium of Food Additive Specifications - Antioxidants synergist", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Maritime Dangerous Goods Requirements (IMDG Code)","Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)","Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5","International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "Australia GHS Hazardous Chemical Information List (Draft)","Australia Exposure Standards","United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (English)", "FisherTransport Information", "Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes", "Joint FAO/WHO Expert Committee on Food Additives (JECFA) Compendium of Food Additive Specifications - Acidulant", "OECD List of High Production Volume (HPV) Chemicals", "Australia - Tasmania Misuse of Drugs Act 2001 -SCHEDULE 1 - Controlled substances and trafficable quantities - PART 4 - Controlled precursors", "Australia Inventory of Chemical Substances (AICS)", "International Numbering System for Food Additives", "Belgium Federal Public Service Mobility and Transport, Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (Dutch)", "United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (Spanish)", "Sigma-AldrichTransport Information", "OECD Existing Chemicals Database", "OSPAR National List of Candidates for Substitution - United Kingdom", "Australia High Volume Industrial Chemical List (HVICL)", "Australia National Pollutant Inventory", "Australia Active Constituents Excluded from the requirements of APVMA Approval", "International Air Transport Association (IATA) Dangerous Goods Regulations", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)","Australia Hazardous

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	Substances Information System - Consolidated Lists", "Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List", "IMO IBC Code Chapter 17: Summary of minimum requirements", "Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6"
water(7732-18-5) is found on the following regulatory lists	"WHO Model List of Essential Medicines - Children","Australia Therapeutic Goods Administration (TGA) Substances that may be used in Listed medicines","WHO Model List of Essential Medicines - Adults","OSPAR National List of Candidates for Substitution – Norway","OECD List of High Production Volume (HPV) Chemicals","Australia Inventory of Chemical Substances (AICS)","Sigma-AldrichTransport Information","IMO IBC Code Chapter 18: List of products to which the Code does not apply","Australia High Volume Industrial Chemical List (HVICL)","International Fragrance Association (IFRA) Survey: Transparency List"

### **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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