

Man-Marker Rounds "MMR"

UTM MSDS, 01-0910-13 Man-Marker Rounds	Revision Date:	April 2018
Revision No. 2	Supersedes:	January 2017

This SDS has been prepared to GHS formatting, but is not a mandated SDS and provided for information purposes only.

SECTION 1.				
	Product and Company Identification			
UK & ROW Supplier: UTM Ltd. Hampstead Avenue Mildenhall Suffolk IP28 7AS United Kingdom	USA Supplier: UTM Inc. 55 Readington Rd. North Branch, NJ 08876 USA	Customer Service: <u>United Kingdom & ROW:</u> +44 (0) 1638 711 003 <u>Unites States Sales Office:</u> 1-877-866-7233 <u>United States Headquarters:</u> 908-725-9000		
Synonyms: Man-Marker F	an-Marker Rounds. (Non – Leth Rounds, MMR.	al Training Ammunition).		
Types: 4.6mm. Marking Colours: Red, B				
Technical Support Service	ce: World (ROW): sales@utmworld	lwide.com		
-	tmworldwide.com, us.military.sa			
Emergency Phone Number: Emergency Phone Hours: UK/ Rest of World (ROW): +44 (0)1638 711 003 UK/ Rest of World (ROW): 9am to 5pm USA: 1-877-866-7233 or 908-725-9000 USA: 9am to 5pm EST		UK/ Rest of World (ROW) : 9am to 5pm GMT		

SECTION 2.

Hazards Identification

Appearance / Odours:

An odourless metallic cylindrical cartridge, having a plastic projectile, filled with a colour marking compound and encapsulated with a 3 legged cruciform plastic dome.

Emergency Overview:

Warning!

Explosive, Keep away from heat.

Do not subject to mechanical shock.

Particles from firing may be harmful if inhaled.

Use (Training) without the appropriate Personal Protective equipment can cause bodily injury.

Do not take internally.

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S	SECTION 2.
Hazards Id	lentification (continued)
Specific Physical Hazards Arising From Product:	
	κposed to an external heat source in excess of 135°C (275°F) and could
produce low velocity fragments which could cause eye injury	or superficial skin wounds.
Caution:	
-	rticles can be emitted as well as gases. Upon over exposure this can be
	cles and or gases may contain trace amounts of harmful substances.
OSHA Regulatory Status:	
This product contains material (s) considered hazardous by the	he OSHA Hazard Communication Standard (29 CFR 1910.1200).
This product contains potential carcinogens as listed by OSH	A, IARC or NTP.
(Note: Potential carcinogens as listed by OSHA, IARC or NTF	P are contained within the spent cartridge case, and do not vent to
atmosphere under normal firing or handling conditions.)	
United Nations Hazard Classification:	United Nations Designation:
Classification 1.4S	UN0012
Potential Health Effects:	
Notes: This product unused is composed of various compone	ents sealed inside a metallic cartridge. Normal handling of this product in
this condition poses no threat of exposure from harmful mater	
It is unlikely that the concentration of particles one would be e	exposed to from normal firing of this product would be sufficient to cause
any of the effects listed.	
Lead: Ingestion of large amounts of Lead can cause abdomin	nal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure t
	ts, developmental effects and permanent nervous system damage in
humans including changes in cognitive function.	
Tetrazene: May be harmful if swallowed or inhaled. Skin and	eye irritant.
Bismuth Subnitrate: May be harmful if swallowed or inhaled.	Skin and eye irritant.
Glass Powder: May be harmful if swallowed or inhaled. Skin a	and ove irritant
Boron: May be harmful if swallowed or inhaled. Skin and eye	irritant (permeator).
	and eyes. Toxic gases, such as oxides of nitrogen, hydrogen cyanide and
carbon monoxide, which may be produced during decomposit	tion or combustion of nitrocellulose.
Diphenylamine: Irritation to eves skin mucous membrane: er	czema; tachycardia, hypertension; cough, sneezing; methemoglobinemia;
	blood in the urine), bladder injury; In Animals: teratogenic effects.
Pentrite: Is a known coronary vasodilator and indestion or inh	nalation may result in a lowering of blood pressure. Skin and eye irritant.
Potassium Nitrate: Irritating to eyes, skin and respiratory tract	t.
Medical Conditions Aggravated by Exposure:	
There are no medical conditions known to be aggravated by e	exposure to this product in its solid un-fired form
Exposure to Lead can aggravate Anemia , Cardiovascular and	
Potential Environmental Effects:	
No Data.	
Lead has been shown to be toxic to aquatic species.	
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SECTION 3.

Components.

Product may contain the components listed below.

Component		Percentage by weight of cartridge	CAS #
CARTRIDGE CASE		· · · · · · · · · · · · · · · · · · ·	
	Silicon	1.3%	7440-21-3
	Iron	<1.0%	7439-89-6
	Copper	4.2%	7440-50-8
	Zinc	1.8%	7440-66-6
	Lead	<0.3%	7439-92-1
	Bismuth	1.1%	7440-69-9
Aluminium Slide	Aluminium	67.1%	7429-90-5
	Magnesium	1.5%	7439-95-4
	Manganese	1.1%	7439-96-5
	Chromium	<0.4%	7440-47-3
	Tin	<0.1%	7440-31-5
	Titanium	<0.2%	7440-32-6
	Copper	11.2%	7440-50-8
	Iron	<0.1%	7439-89-6
Primer Cups	Lead	<0.1%	7439-89-8
	Zinc	5.9%	7439-92-1
O Bing	Nitrile		
O Ring	Polyamide 66	<1.0%	Not Listed
Striker Ball		<1.0% <0.3%	32131-17-2
	Glass Fibre	<0.3%	65997-17-3
PROJECTILE		- <i></i>	
Projectile Body	Polycarbonate	8.4%	24936-68-3
	Carbon	<0.1%	7440-44-0
Applicator Ball	Iron	4.1%	7439-89-6
	Manganese	<0.1%	7439-96-5
Marking Compound	Marking Compound	<1.0%	Not Listed
Dome	Polyamide 66	1.3%	32131-17-2
PRIMERS (FRONT)			
	Tetrazene	<0.1%	109-27-3
	Bismuth Subnitrate	<0.2%	1304-85-4
	Glass Powder	<0.1%	65997-17-3
Drimony Explosive	Boron	<0.1%	7440-42-8
Primary Explosive	Nitrocellulose	<0.1%	9004-70-0
	Diphenylamine	<0.1%	122-39-4
	Centralite I	<0.1%	85-98-3
	2,4-Dinitroanisole	<0.1%	119-27-7
PRIMERS (REAR)	_,		
	Tetrazene	<0.2%	109-27-3
	Penthrite	<0.2%	78-11-5
	Potassium Nitrate	<0.1%	7757-79-1
	Glass Powder	<0.1%	65997-17-3
Primary Explosive	Boron	<0.1%	7440-42-8
Fillinaly Explosive	Nitrocellulose	<0.1%	9004-70-0
	Diphenylamine	<0.1%	122-39-4
	Centralite I	<0.1%	85-98-3
	2,4-Dinitroanisole	<0.1%	119-27-7

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SECTION 4.

First Aid Measures

* Eye Contact:

Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician Immediately.

*Skin Contact:

Wash skin with plenty of soap and water.

*Inhalation:

If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion:

If ingested, immediately call a physician.

Items marked with an asterisk (*) are conditions associated with the firing or discharge of the product and under normal conditions of transportation and handling of the product would not be a risk.

SECTION 5.

Fire Fighting Measures

Flammable Properties:

May detonate if heated to 135°C (275°F).

Suitable Extinguishing Media:

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.

Cool the containing vessel with a water jet in order to prevent the ammunition from functioning (cook-off).

Use water to cool ordinary surrounding combustibles.

Use flooding quantities of water.

Use wide fog pattern nozzle to stop any low velocity fragments.

Specific Hazards Arising From Product:

Packaged and Loose cartridges could function (cook-off) due to direct exposure to an external heat source and could produce low velocity metallic fragments which could cause eye injury or superficial skin wounds.

Protective Equipment & Precautions for Fire-fighters:

Wear full fire-fighter protective equipment including face shield or SCBA.

Minimum recommended distance for rescue personnel 10 meters (11 yards).

Evacuate the area to a radius of 100 meters (110 yards).

SECTION 6.

Accidental Release Measures

Methods for Containment:

Spills of this material should be handled carefully. Do not subject materials to mechanical shock. A spill of this material will normally not require emergency response team capabilities.

Methods for Clean-up:

If ammunition packing case should rupture, any loose cartridges should be placed into UTM classified packaging and the lid carefully secured.

Damaged/ Defective Ammunition should be quarantined into UTM classified packaging and disposed of in accordance with local instructions for defective ammunition, such as burnt in a standard ammunition incinerator.

SECTION 7. Handling & Storage Handling: Keep out of reach of any unauthorized personnel. Keep out of reach of children. Wash hands thoroughly with soap and warm water after handling and before eating or smoking. Ergonomic lifting techniques to be applied when lifting ammunition cartons. Storage, including any incompatibilities: Keep out of reach of any unauthorized personnel. Keep out of reach of children. Packaged ammunition should be stored in a cool dry environment in a common ammunition lockup (magazine). Avoid striking the primer of an unchambered cartridge. Ammunition should be disposed of as defective ammunition if any of the following conditions occur: Storage temperatures exceed 90°C (195°F). • Evidence of corrosion. •

- Physical damage.

SECTION 8.

Exposure Controls / Personal Protection (PPE) ACGIH TLV-TWA Component CAS # **OSHA PEL-TWA CARTRIDGE CASE** Silicon 7440-21-3 15mg/m³ 10mg/m³ Iron 7439-89-6 None Listed No Limit Established 7440-50-8 Copper 0.1mg/m³ 0.2mg/m³ Zinc 7440-66-6 None Listed No Limit Established 7439-92-1 0.05mg/m³ 0.15mg/m³ Lead No Limit Established Aluminium Slide Bismuth 7440-69-9 None Listed Aluminium 7429-90-5 15mg/m³ 10mg/m³ No Limit Established Magnesium 7439-95-4 None Listed Manganese 7439-96-5 5mg/m³ 0.2mg/m³ Chromium 7440-47-3 1mg/m³ 0.5mg/m³ Tin 7440-31-5 2mg/m³ No Limit Established Titanium 7440-32-6 None Listed No Limit Established 7440-50-8 Copper 0.1mg/m³ 0.2mg/m³ No Limit Established 7439-89-6 None Listed Iron Primer Cups Lead 7439-92-1 0.05mg/m³ 0.15mg/m³ Zinc 7440-66-6 None Listed No Limit Established None Listed O Ring Nitrile Not Listed No Limit Established Polyamide 66 None Listed No Limit Established 32131-17-2 Striker Ball **Glass Fibre** 65997-17-3 0 0 PROJECTILE Polycarbonate **Projectile Body** 24936-68-3 0 0 15mg/m³ 2mg/m³ Carbon 7440-44-0 Applicator Ball 7439-89-6 No Limit Established Iron None Listed Manganese 7439-96-5 5mg/m³ 5mg/m³ Marking Compound Marking Compound Not Listed None Listed Not Listed Polyamide 66 Dome 32131-17-2 None Listed No Limit Established PRIMERS (FRONT) 109-27-3 None Listed No Limit Established Tetrazene 1304-85-4 **Bismuth Subnitrate** None Listed No Limit Established Glass Powder 65997-17-3 15mg/m³ 15mg/m³ 7440-42-8 10mg/m³ 10mg/m³ Boron **Primary Explosive** No Limit Established Nitrocellulose 9004-70-0 None Listed 122-39-4 None Listed No Limit Established Diphenylamine Centralite I 85-98-3 None Listed No Limit Established 2,4-Dinitroanisole 119-27-7 None Listed No Limit Established PRIMERS (REAR) No Limit Established 109-27-3 Tetrazene None Listed Penthrite 78-11-5 None Listed No Limit Established Potassium Nitrate 7757-79-1 None Listed No Limit Established Glass Powder 15mg/m³ 65997-17-3 15mg/m³ Primary Explosive 7440-42-8 10mg/m³ 10mg/m³ Boron Nitrocellulose 9004-70-0 None Listed No Limit Established Diphenylamine 122-39-4 None Listed No Limit Established Centralite I 85-98-3 None Listed No Limit Established 119-27-7 None Listed

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2,4-Dinitroanisole

No Limit Established

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Engineering Controls:		
Normal handling of this product requires no special controls.		
When Firing product local exhaust ventilation is recommended if significant dusting occurs	s or fumes are generated.	Otherwise, use
exhaust ventilation with explosion-proof ventilation.	-	
Eye / Face Protection:		
Normal handling of this product requires the use safety glasses.		
When training with product always wear the appropriate PPE based on the type of training	J.	
Always wear UTM Face Mask and UTM approved Goggles when engaging in Force-on-F	orce training.	
Hand Protection:		
Not normally needed for handling this product.		
When training with the UTM product always wear the appropriate PPE base on the type o	f training.	
Always wear UTM Protective Gloves when engaging in Force-on-Force training.		
Skin Protection:		
Not normally needed for handling this product.		
When training with product always wear the appropriate PPE base on the type of training.		
Always wear a minimum of two layers of loose fitting clothing with no exposed skin when	engaging in Force-on-Force	e training.
Respiratory Protection:		
Not normally needed when handling this product.		
If when firing the airborne concentrations exceed the above listed exposure limits wear re-	spiratory protection in acco	rdance with local
regulations.		
Hearing Protection:		
When firing cartridges if noise levels exceed maximum regulatory levels it is advised that	hearing protection is worn.	
General Hygiene:		
Do not eat, drink, or smoke while using this product.		
When firing, avoid breathing fumes and smoke.		
Wash hands thoroughly after use.		
Safety Phrases:		
For Hazardous Composition substances: S16, S22, S23, S29, S33, S35, S37, S39.		

SECTION 9.

Physical & Chemical Properties

Appearance (colour, physical form, shape):

Cylindrical Cartridge - Aluminium (turned). Having a metallic projectile. The projectile has a white plastic nose encasing a coloured marking compound and two independent energetic compounds.

Property	Value	Property	Value
Odour:	None	Partition Coefficient: N-Octanol/water:	Not applicable
Odour Threshold:	Not applicable	Auto-Ignition Temperature:	Cartridges could spontaneously function (cool off) at 135 ° C (275 ° F)
Physical State:	Multi component assembly with water soluble marking paste	Decomposition Temperature:	Not Applicable
PH:	Not applicable	Heat Value:	Not applicable
Melting/ Freezing Point:	Not applicable	Particle Size:	Not applicable
Initial Boiling Point & Boiling Range:	Not applicable	Volatile Organic Compounds (VOC) Content:	Not applicable
Flash Point:	Cartridges could spontaneously function (cook off) at 135 ° C (275 ° F)	Softening Point:	Not applicable
Evaporation Rate:	Not applicable	Pour Point:	Not applicable
Flammability (solid, gas):	Not applicable	Viscosity:	Not applicable
Upper/Lower Flammability or Explosive Limits:	Not applicable	Bulk Density:	Not applicable
Vapour Density:	Not applicable	Percent Volatile:	Not applicable
Vapour Pressure:		Saturated Vapour Concentration:	Not applicable
Specific Gravity or relative Density:	Not applicable	Molecular Weight:	Not applicable
Solubility:	Insoluble	Molecular Formula:	Not applicable

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SECTION 10.

Stability & Reactivity

Stability:

Product stable under normal use.

Normal operating temperature conditions between -5°C (40°F) and 40°C (104°F).

Conditions to Avoid:

Cartridge may function if the primer is inadvertently struck. Avoid subjecting to mechanical shock.

Product could spontaneously function if heated to 135°C (275°F).

Incompatible Materials:

Acids, Alkalis, Ammonia, Acetylene, Caustics Chlorine, Halogenated Hydrocarbons, corrosive or strong oxidizing substances.

Hazardous Decomposition Products:

Nitrogen Oxides, Carbon and Carbon Oxides.

Other dust and fumes may also be produced.

Possibility of Hazardous reactions:

No reported reactions.

SECTION 11.

Toxicological Information Oral LD 50: No Data. Dermal LD 50: No Data. Inhalation LC 50: No Data. **Risk Phrases:** For hazardous composition substances: R1, R3, R5, R6, R19, R21, R22, R36, R50, R67. Sub Chronic/ Chronic Toxicity: No Data Carcinogenicity: No Data **Mutagenicity:** This product is not known or reported to be mutagenic. Reproductive, Teratogenicity, Or Developmental Effects: This product is not known or reported to cause reproductive or developmental effects. **Neurological Effects:** This product is not known or reported to cause neurological effects. Interactions With Other Chemicals Which Enhance Toxicity:

None known or reported.

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SECTION 12.

Ecological Information

Eco-toxicity/ Persistence/ Degradability/ Mobility:

Data Known:

Nitrocellulose: LC50 > 1000 mg/l (fish, invertebrates, algae).

Bioaccumulation / Accumulation:

None known or reported.

Other Adverse Effects:

None known or reported.

SECTION 13.

Disposal Information

Disposal :

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. This information presented below only applies to the material as supplied after firing. The identification based on characteristic (s) or listing may not apply if the material has not been fired or has been otherwise contaminated.

Damaged (Non-functioned) rounds:

Quarantined in classified packaging and disposed in accordance with local instructions for defective small arms ammunition.

Faulty (Non-functioned) ammunition:

Quarantined in classified packaging and disposed in accordance with local instructions for defective small arms ammunition.

Special precautions for landfill or incineration:

Damaged or defective ammunition may contain live explosive compound within the 'primers'.

Care should be taken when feeding the damaged or defective ammunition into an incinerator.

Personal Protective Equipment suitable to the burning work must be worn at all times.

(Note: Toxicity reports into spent cartridges have been carried out and may, subject to local regulations, be suitable for landfill disposal. Copies of the reports are available on request.)

SECTION 14.

Transportation Information

Basic Shipping Information:

Proper Shipping Name:	Cartridges, Small Arms
Hazard Class:	1.4 S
Subsidiary Hazard Class:	Not Applicable
Identification Number:	UN0012
Packing Group:	Packaging Group II, Substances presenting medium danger.
	Packaging Group III, Substances presenting low danger.

Special Comments:

UTM Training ammunition is to be afforded the same handling and usage restriction as applied to common live ammunition. Ammunition shipped domestically in the US can be reclassified as ORM-D or ORM-D Air (within guidelines). See 49 CFR 173.63 for ORM-D reclassification.

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SECTION 15.

Regulatory Information

TSCA Inventory Status:

Components of this product are listed on the Toxic Substance Control Act inventory.

CERCLA:

	omponent	CAS #	RCRA Waste #	Final RQ Pounds (Kg)
CARTRIDGE CASE	Ciliaan	7440-21-3	Net Listed	Net Listed
	Silicon		Not Listed	Not Listed
	Iron	7439-89-6	Not Listed	Not Listed
	Copper	7440-50-8 7440-66-6	Not Listed	5000 (2270)
	Zinc	7439-92-1	Not Listed	1000 (454)
	Lead Bismuth		Not Listed	10 (4.54)
Aluminium Slide		7440-69-9 7429-90-5	Not Listed Not Listed	Not Listed
	Aluminium			Not Listed
	Magnesium	7439-95-4	Not Listed	Not Listed
	Manganese	7439-96-5	Not Listed	Not Listed
	Chromium	7440-47-3	Not Listed	5000 (2270)
	Tin	7440-31-5	Not Listed	Not Listed
	Titanium	7440-32-6	Not Listed	Not Listed
	Copper	7440-50-8	Not Listed	5000 (2270)
Primer Cups	Iron	7439-89-6	Not Listed	Not Listed
·	Lead	7439-92-1	Not Listed	10 (4.54)
	Zinc	7440-66-6	Not Listed	1000 (454)
O Ring	Nitrile	Not Listed	Not Listed	Not Listed
Striker Ball	Polyamide 66	32131-17-2	Not Listed	Not Listed
	Glass Fibre	65997-17-3	0	0
PROJECTILE	Delveerberete	04000 00 0	0	0
Projectile Body	Polycarbonate	24936-68-3	0	0
	Carbon	7440-44-0	Not Listed	Not Listed
Applicator Ball	Iron	7439-89-6	Not Listed	Not Listed
	Manganese	7439-96-5	Not Listed	Not Listed
Marking Compound	Marking Compound	Not Listed	Not Listed	Not Listed
	Polyamide 66	32131-17-2	Not Listed	Not Listed
PRIMERS (FRONT)	Tatua	400.07.0	Nie (Lie (e. d.	
	Tetrazene	109-27-3	Not Listed	Not Listed
	Bismuth Subnitrate	1304-85-4	Not Listed	Not Listed
	Glass Powder	65997-17-3	Not Listed	Not Listed
Primary Explosive	Boron	7440-42-8	Not Listed	Not Listed
, i	Nitrocellulose	9004-70-0	Not Listed	Not Listed
	Diphenylamine	122-39-4	Not Listed	Not Listed
	Centralite I	85-98-3	Not Listed	Not Listed
	2,4-Dinitroanisole	119-27-7	Not Listed	Not Listed
PRIMERS (REAR)	1 - ·		N 1 1 1	
	Tetrazene	109-27-3	Not Listed	Not Listed
	Penthrite	78-11-5	Not Listed	Not Listed
Primary Explosive	Potassium Nitrate	7757-79-1	Not Listed	Not Listed
	Glass Powder	65997-17-3	Not Listed	Not Listed
	Boron	7440-42-8	Not Listed	Not Listed
	Nitrocellulose	9004-70-0	Not Listed	Not Listed
	Diphenylamine	122-39-4	Not Listed	Not Listed
	Centralite I 2,4-Dinitroanisole	85-98-3	Not Listed	Not Listed
		119-27-7	Not Listed	Not Listed

None of the components in this product are listed.

SECTION 16.

Other Information

References:

- OHSA 29CFR 1910.
- ANSI Z400.1-2004.
- 49 C.F.R. 173.63.
- US Department of Health and Human Services, 11th Report on Carcinogens.
- State of California Environmental Protection Agency office of Environmental Health Hazard assessment safe Drinking Water and toxic enforcement Act 1986, chemicals known to the state to cause cancer or reproductive toxicity
- International Agency for Research on Cancer, Agents reviewed by the IARC Monographs, Volumes 1-100A, SEPTEMBER 11, 2009.
- US Environmental Protection Agency, EPA 550-B-01-003, List of Lists, Consolidated List of Chemicals Subject to the Emergency Planning and Community Right -To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act.
- US Environmental Protection Agency, Substance Registry Services.
- NIOSH, National institute for Occupational Safety & Health, Pocket guide to chemicals hazards.
- ATSDR, Agency for Toxic Substances & Disease Registry, 2007 priority list.
- UN Recommendations on the Transport of Dangerous goods model regulations 14th edition
- Explosives (6th edition) by Rudolf Mayer.
- Chemicals Hazard Information and Packaging supply regulations (CHIP) approved supply list 7th edition
- U.K. competent authority documents.
- European Commission Joint Research Centre
- The physical and Theoretical Chemistry Laboratory, Oxford University

Prepared By:

UTM Ltd.

Additional Contact Info:

Additional information available from: www.utmworldwide.com

Notice:

The information in this MSDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. UTM Ltd. believes this information to be reliable and current as of the date of publication, but makes no warranty that it is.

Disclaimer:

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