Tintometer[®] Group Water Testing



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.10.2023

Version number 4 (replaces version 3)

Revision: 30.10.2023

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

- 1.1 Product identifier
- Product name: Reference Standard Lovibond[®] RYBN Colour 2.0R 7.0Y 0.5N
- · Catalog number: 56Z067498, 56L0674, 134100
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Coloured Standard Solution for calibration purposes
- · 1.3 Details of the supplier of the safety data sheet
- Supplier: Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com

The Tintometer Limited Lovibond[®]House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom

- Informing department:
 e-mail: sds@lovibond.com
 Product Safety Department
- **1.4 Emergency telephone number:** +44 1235 239670 Languages: English

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements
- H290 May be corrosive to metals.
- Precautionary statements
 P234 Keep only in original packaging.
 P390 Absorb spillage to prevent material damage.

• 2.3 Other hazards No further relevant information available.

phone: +49 (0)231 94510-0 e-mail: sales@lovibond.com

phone : +44 1980 664800 e-mail: SDS@lovibond.uk

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· Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

- · **Description:** aqueous solution
- · Dangerous components:

The percent content of the cobalt compound mentioned below refers to the amount of the pure cobalt therein.

CAS: 7647-01-0	hydrochloric acid	≤2.5%
EINECS: 231-595-7 Index No: 017-002-01-X	♦ Met. Corr.1, H290; Skin Corr. 1B, H314; ♦ STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 %	
Reg.nr.: 01-2119484862-27-XXXX		
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
	STOT SE 3; C ≥ 10 %	
CAS: 7791-13-1	cobalt dichloride hexahydrate	0.001-<0.01%
EINECS: 231-589-4	Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350i; Repr. 1B, H360F; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10);	
Index No: 027-004-00-5	Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10);	
	♦ Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limit: Carc. 1B; H350i: C ≥ 0.01 %	
	-	
• Additional information For the wording of the listed hazard phrases refer to section 16.		

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.
- After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.
- In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed: slight irritation may occur
- 4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture
- The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

- Can be released in case of fire:
- Hydrogen chloride (HCI)
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained breathing apparatus.

- Wear full protective suit.
- Additional information
 Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Ambient fire may liberate hazardous vapours.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

· Advice for emergency responders: Protective equipment: see section 8

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Dilute with much water.

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- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, universal binders).
 Dispose of contaminated material as waste according to item 13.
- 6.4 Reference to other sections See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

· Advice on safe handling: No special precautions necessary if used correctly.

- · Hygiene measures:
- Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

- Do not eat, drink or smoke when using this product.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Store away from metals.
- · Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from the effects of light.

Protect from humidity and keep away from water.

Recommended storage temperature: 20°C +/- 5°C

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Components with limit values that require monitoring at the workplace:

CAS: 7647-01-0 hydrochloric acid		
WEL (Great Britain)	Short-term value: 8 mg/m³, 5 ppm Long-term value: 2 mg/m³, 1 ppm (gas and aerosol mists)	
IOELV (European Union)	Short-term value: 15 mg/m³, 10 ppm Long-term value: 8 mg/m³, 5 ppm	
• Regulatory information WEL (Great Britain): EH40/2020 IOELV (European Union): (EU) 2019/1831		
DNELs		

Derived No Effect Level (DNEL)

CAS: 7647-01-0 hydrochloric acid

Inhalative DNEL 15 mg/m³ (Worker / acute / local effects)

8 mg/m³ (Worker / long-term / local effects)

Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

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· PNEC	•	
	ted No Effect Concentration (PNEC)	
	7647-01-0 hydrochloric acid	
PNEC 0.036 mg/l (Sewage treatment plant)		
	0.036 mg/l (Marine water)	
	0.045 mg/l (Aquatic intermittent release)	
	0.036 mg/l (Fresh water)	
Additi	onal information: The lists that were valid during the compilation were used as basis.	
· 8.2 Ex	posure controls	
	eering measures: ical measures and appropriate working operations should be given priority over the use of personal protective equipment. em 7.	
Protec substa • Eye/fa Safety	dual protection measures, such as personal protective equipment tive clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous inces handled. Ice protection glasses	
Use sa	ainst the effects of fumes / dust afety glasses that have been tested and approved in accordance with government standards such as EN 166. protection	
• Hand protection Preventive skin protection by use of skin-protecting agents is recommended.		
After use of gloves apply skin-cleaning agents and skin cosmetics.		
	al of gloves	
nitrile rubber, NBR		
	nmended thickness of the material: \geq 0.11 mm	
Penetration time of glove material Value for the permeation: Level = 1 (< 10 min.)		
Value for the permeation: Level = 1 (< 10 min) The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.		
• Other skin protection (body protection): Protective work clothing.		
• Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.		
	nmended filter device for short term use: Combination filter E-P1	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical pro	•	
Physical state	Fluid	
Form:	Solution	
Colour:	Light yellow	
Odour:	Odourless	
Odour threshold:	Not applicable.	
Melting point/Freezing point:	~0°C	
Boiling point or initial boiling point and boiling ran	ige 100°C (CAS: 7732-18-5 water)	
Flammability	The product is not combustible.	
Explosive properties:	Product is not explosive.	
Lower and upper explosion limit		
Lower:	Not applicable.	
Upper:	Not applicable.	
Flash point:	Not applicable.	
Auto-ignition temperature:	Not applicable.	
Decomposition temperature:	Not determined.	
рН	Strongly acidic	
Kinematic viscosity	Not determined.	
Solubility		
Water:	Fully miscible	
Partition coefficient n-octanol/water (log value)	Not applicable (mixture).	
Vapour pressure:	Not determined.	

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· Density and/or relative density	
· Density at 20°C:	~1 g/cm³
Relative density:	Not determined.
Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).
· 9.2 Other information	
· Information with regard to physical ha	zard classes
· Corrosive to metals	May be corrosive to metals.
· Metals that are corroded by the substa	ance or mixture Information on incompatible materials can be found in Sections 7 and
	10.
 Other safety characteristics 	
Oxidising properties:	none
· Additional information	
· Solids content:	< 0.1 %
· Solvent content:	
· Organic solvents:	0 %
· Water:	97.5 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity see section 10.3

· 10.2 Chemical stability Stable at ambient temperature (room temperature).

10.3 Possibility of hazardous reactions

- Reacts with metals forming hydrogen (Danger of explosion in case of large amounts!)
- Corrosive action on metals

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- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: metals
- · 10.6 Hazardous decomposition products: see section 5

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values that are relevant for classification:		
	CAS: 7647-01-0 hydrochloric acid		
Inhalative	LC50	3124 ppm / 1h (rat)	
		(RTECS,V, pure)	
	CAS: 7791-13-1 cobalt dichloride hexahydrate		
Oral	LD50	766 mg/kg (rat) (RTECS)	
Dermal	LD50.	>2000 mg/kg (rat) (RTECS CAS 1308-06-1 tricobalt tetraoxide)	

Skin corrosion/irritation Based on available data, the classification criteria are not met.
 Serious eye damage/irritation Based on available data, the classification criteria are not met.

· Information on components:

CAS: 7647-01-0 hydrochloric acid Irritation of skin OECD 404 (rabbit: burns)

Irritation of eyes OECD 405 (rabbit: burns)

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Information on components:

CAS: 7647-01-0 hydrochloric acid

Sensitisation OECD 406 (negative) (EPA OPP 81-6: Guinea pig maximisation test)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

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· Reproductive toxicity Based on available data, the classification criteria are not met.

• STOT (specific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. • STOT (specific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

· Information on likely routes of exposure

Exposure to hydrochloric acid is possible during occupational handling due to contact with the skin and inhalation of vapors. The main intake pathway is considered to be via the respiratory tract.

Gastrointestinal tract: Specific kinetic studies are not available. They are considered not necessary because gastric juice already contains a high concentration of hydrochloric acid which is physiologically conditioned. Following ingestion, local effects are therefore of priority. [GESTIS]

· Additional toxicological information:

CAS: 7647-01-0 hydrochloric acid

(source: GESTIS)

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Main toxic effects

Acute: Irritation and corrosion to the eyes, airways and skin, danger of severe damage to the eyes and lungs, following ingestion, concentration-dependent damage to the gastrointestinal tract Chronic: Airway diseases, damage to the teeth, gastrointestinal disorders

Further Information:

The acute action of hydrochloric acid is based on the locally damaging effects on contacted tissues which are primarily dependent on the concentration. Following repeated contact with the skin, even diluted hydrochloric acid can cause skin damage (reddening, drying, fissures, dermatitis). The critical effect following repeated inhalative exposure is irritation to the respiratory tract.

11.2 Information on other hazards

• Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

• Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 7647-01-0 hydrochloric acid

- EC50 20.5 mg/l/96h (bluegill) (OECD 203)
- (Merck)

CAS: 7791-13-1 cobalt dichloride hexahydrate

- EC50 1.1–1.6 mg/l/48h (Daphnia magna)
- EC50 0.5 mg/l/96h (Chlorella vulgaris)
- IC50 0.33 mg/l/96 h (carp)

· Other information:

- Toxic for fish:
- HCI > 25 mg/l
- 12.2 Persistence and degradability .
- Other information:

Mixture of inorganic compounds.

- Methods for the determination of biodegradability are not applicable to inorganic substances.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Forms corrosive mixtures with water even if diluted.

Harmful effect due to pH shift.

Avoid transfer into the environment.

· Water hazard:

Do not allow product to reach ground water, water bodies or sewage system.

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Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to disposers of hazardous waste. European waste catalogue

16 05 07* discarded inorganic chemicals consisting of or containing hazardous substances

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1789
 · 14.2 UN proper shipping name · ADR · IMDG, IATA 	1789 HYDROCHLORIC ACID mixture HYDROCHLORIC ACID mixture
 14.3 Transport hazard class(es) 	
ADR	
a the second sec	
· Class · Label	8 (C1) Corrosive substances. 8
· IMDG, IATA	
8	
Class	8 Corrosive substances
· Class · Label	8 Corrosive substances. 8
· Label · 14.4 Packing group	8
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user	8 III Not applicable. Warning: Corrosive substances.
 Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 	8 III Not applicable.
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Kemler Number:	8 III Not applicable. Warning: Corrosive substances. 80
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups	8 III Not applicable. Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids E
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category 14.7 Maritime transport in bulk according to IM	8 III Not applicable. Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids E O
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category 14.7 Maritime transport in bulk according to IM instruments	8 III Not applicable. Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids E O
 Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category 14.7 Maritime transport in bulk according to IM instruments Transport/Additional information: ADR Limited quantities (LQ) 	8 III Not applicable. Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids E O Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml

10%

3

3

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· Tunnel restriction code	E	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act UK

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Regulated explosives precursors

The concentration of the substance is less than the stated mass percentage and should still be considered as reportable substance:

CAS: 7647-01-0 h	ydrochloric acid
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Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

· Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

• Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

CAS: 7647-01-0 hydrochloric acid

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7647-01-0 hydrochloric acid

• Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

Substances of very high concern (SVHC) according to REACH, Article 57 CAS 7791-13-1 Cobalt dichloride hexahydrate <0.1 %

This product does not contain any substances of very high concern above the legal concentration limit of $\ge 0.1\%$ (w / w). Substances of very high concern (SVHC) according to UK REACH

This product does not contain any substances of very high concern above the legal concentration limit of $\ge 0.1\%$ (w / w).

· Directive 2012/18/EU (SEVESO III):

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Information about limitation of use: Not required.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Training hints Provide adequate information, instruction and training for operators.

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H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350i May cause cancer by inhalation. H360F May damage fertility H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Abbreviations and acronyms: OECD: Organisation for Economic Co-operation and Development STOT: specific target organ toxicity SE: single exposure RE: repeated exposure EC50: half maximal effective concentration IC50: half maximal inhibitory concentration NOEL or NOEC: No Observed Effect Level or Concentration ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Muta. 2: Germ cell mutagenicity - Category 2 Carc. 1B: Carcinogenicity – Category 1B Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Sources Data arise from safety data sheets, reference works and literature. RTECS (Registry of Toxic Effects of Chemical Substances) ECHA: European CHemicals Agency http://echa.europa.eu GESTIS- Stoffdatenbank (Substance Database, Germany)

• * Data compared to the previous version altered.

· Relevant phrases

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GB