

Enramycin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.3	28.09.2024	9371344-00009	Date of first issue: 27.08.2021

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

1.1 Product identifier Trade name	:	Enramycin Formulation					
1.2 Relevant identified uses of t Use of the Sub-		ubstance or mixture and uses advised against Veterinary product					
stance/Mixture	•						
Recommended restrictions on use	:	Not applicable					
1.3 Details of the supplier of the safety data sheet							
Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom					
Telephone	:	+1-908-740-4000					
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com					

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Short-term (acute) aquatic hazard, Cate-
gory 1H400: Very toxic to aquatic life.Long-term (chronic) aquatic hazard, Cat-
egory 2H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms



According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Signa	l word	:	Warning	
Haza	rd statements	:	H410	Very toxic to aquatic life with long lasting effects.
Preca	autionary statements	:	Prevention P273	: Avoid release to the environment.
			Response: P391	Collect spillage.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ENRAMYCIN B	34304-21-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 2.5 - < 10
Substances with a workplace exposure	e limit :		
Talc	14807-96-6 238-877-9		>= 90 - <= 100

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Prote	ction of first-aiders	:	No special prec	autions are necessary for first aid responders.	
lf inh	aled	:	If inhaled, remo Get medical att	ove to fresh air. ention if symptoms occur.	
In ca	se of skin contact	:		er and soap. ention if symptoms occur.	
In ca	se of eye contact	:		well with water. ention if irritation develops and persists.	
lf swa	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
1 2 Most	important symptoms a	and	offects both aci	ite and delayed	
Risks		:		ist can cause mechanical irritation or drying of	
			Dust contact with the eyes can lead to mechanical irritation.		
4.3 Indica	tion of any immediate	me	dical attention a	nd special treatment needed	
	ment	:		atically and supportively.	
SECTION	N 5: Firefighting mea	asur	es		
5.1 Exting	guishing media				
Suita	ble extinguishing media	ı :	Water spray Alcohol-resista	nt foam	
			Carbon dioxide Dry chemical		
Unsu medi	itable extinguishing a	:	High volume wa	ater jet	

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-



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for fire	fighters	essary. Use pers	sonal protective equipment.
Specif ods	ic extinguishing meth-	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust.

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	Hygien	e measures	:	 Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the 			
7.2 (Conditi	ons for safe storage,	inc	luding any incom	patibilities		
		ements for storage and containers	:	Keep in properly the particular nat	labelled containers. Store in accordance with ional regulations.		
	Advice	on common storage	:	No special restric	ctions on storage with other products.		
7.3 \$	•	c end use(s) c use(s)	:	No data available			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

dust of any kind10 mg/m3Value type (Form of exposure): TWA (Inhalable)Basis: GB EH40

4 mg/m3 Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
Talc	14807-96-6	TWA (Respirable	1 mg/m3	GB EH40
		dust)		
ENRAMYCIN B	34304-21-7	TWA	5 mg/m3 (OEB 1)	Internal

8.2 Exposure controls

Engineering measures

Use feasible engineering controls to minimize exposure to compound.

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All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder light brown characteristic No data available
рН	:	5 - 8.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Solubility(ies)		

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Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature		::	practically insoluble No data available No data available No data available				
Viscosity Viscosity, kinematic Explosive properties		:	No data availabl Not explosive	e			
Oxidizing properties		:	The substance of	r mixture is not classified as oxidizing.			
9.2 Other information Flammability (liquids) Molecular weight Particle size		::	No data availabl No data availabl No data availabl	e			

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust can form an explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : None.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion

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			Eye contact	
Acute	e toxicity			
Not c	lassified based on av	ailable	information.	
Com	ponents:			
ENR/	AMYCIN B:			
Acute	oral toxicity	:	LD50 (Mouse)	: > 5,000 mg/kg
			LD50 (Rat): >	10,000 mg/kg
Talc:				
Acute	e oral toxicity	:	LD50 (Rat): > Remarks: Base	5,000 mg/kg ed on data from similar materials
	corrosion/irritation lassified based on av	ailable	information.	
<u>Com</u>	ponents:			
Talc:				
Speci	ies	:	Rabbit	
Serio	ous eye damage/eye	irritati	on	
	lassified based on av			
Com	ponents:			
ENR/	AMYCIN B:			
Speci	-	:	Rabbit	
Resu		:	No eye irritatio	n
Talc:				
Speci		:	Rabbit	
Resu	IT	-	No eye irritatio	n
Resp	iratory or skin sens	itisatio	n	
-	sensitisation lassified based on av	ailable	information.	
-	iratory sensitisatior lassified based on av		information.	
<u>Com</u>	ponents:			
Talc:				
Expo	sure routes	:	Skin contact	
Speci Resu		:	Humans	
Deer	14		negative	

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Germ cell mutagenicity

Not classified based on available information.

Components:

ENRAMYCIN B:

Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Talc:	
Genotoxicity in vitro	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
Genotoxicity in vivo	Test Type: Chromosome aberration test in vitro Species: Rat Application Route: Ingestion Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Species	:	Mouse
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	2 Years
Result	:	negative
Exposure time	:	2 Years

Reproductive toxicity

Not classified based on available information.

Components:

Talc:

Effects on foetal development : Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

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Repeated dose toxicity

Components:

ENRAMYCIN B:

Species	:	Rat
NOAEL	:	1,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	6 Months

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:		
ENRAMYCIN B: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 18 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.96 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC50 (Anabaena flos-aquae (cyanobacterium)): 0.083 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae (cyanobacterium)): 0.045 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to microorganisms	:	EC50 : 438.5 mg/l Exposure time: 3 h

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		Method: O	ECD Test Guideline 209
		EC10 : 0.0 Exposure t Method: O	
M-Fa toxic	actor (Chronic aquatic ity)	: 1	
Talc	:		
Τοχία	city to fish	: LC50 (Brad Exposure f	chydanio rerio (zebrafish)): > 100,000 mg/l ime: 24 h
12.2 Pers	sistence and degradabi	lity	
Com	ponents:		
ENR	AMYCIN B:		
Biod	egradability		t readily biodegradable. ECD Test Guideline 301B
	accumulative potential ata available		
	ility in soil ata available		
12.5 Res	ults of PBT and vPvB a	ssessment	
Proc	luct:		
Asse	essment	to be eithe	ance/mixture contains no components considered r persistent, bioaccumulative and toxic (PBT), or tent and very bioaccumulative (vPvB) at levels of gher.
12.6 Othe	er adverse effects		
Proc	luct:		
Endo tial	ocrine disrupting poten-	ered to hav	ance/mixture does not contain components consid- ve endocrine disrupting properties for environment to UK REACH Article 57(f).
SECTIO	N 13: Disposal consi	derations	
13 1 Was	te treatment methods		
Prod		: Dispose of	in accordance with local regulations.
		According are not pro	to the European Waste Catalogue, Waste Codes duct specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Do not dispose of waste into sewer.

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Contaminated pa	nckaging	:	dling site for recy	s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
SECTION 14: Tran	sport inform	ati	ion	
14.1 UN number				
ADN		:	UN 3077	
ADR		:	UN 3077	
RID		:	UN 3077	
IMDG		:	UN 3077	
ΙΑΤΑ		:	UN 3077	
14.2 UN proper ship	ping name			
ADN		:	ENVIRONMENTA N.O.S. (ENRAMYCIN B)	ALLY HAZARDOUS SUBSTANCE, SOLID,
ADR		:	ENVIRONMENTA N.O.S. (ENRAMYCIN B)	ALLY HAZARDOUS SUBSTANCE, SOLID,
RID		:	ENVIRONMENTA N.O.S. (ENRAMYCIN B)	ALLY HAZARDOUS SUBSTANCE, SOLID,
IMDG		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SO N.O.S. (ENRAMYCIN B)		
ΙΑΤΑ		:	Environmentally h (ENRAMYCIN B)	hazardous substance, solid, n.o.s.
14.3 Transport haza	rd class(es)			
			Class	Subsidiary risks
ADN		:	9	-
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packing group				
ADN Packing group Classification Co Hazard Identifica Labels ADR		:	III M7 90 9	

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Clas Haz Lab	king group ssification Code ard Identification Number els nel restriction code	:	III M7 90 9 (-)	
Clas	king group ssification Code ard Identification Number els	:	III M7 90 9	
Lab	king group	:	III 9 F-A, S-F	
Pac airci Pac	king instruction (LQ) king group	:	956 Y956 III Miscellaneous	
Pac ger Pac	A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group els	:	956 Y956 III Miscellaneous	
14.5 Env	rironmental hazards			
ADI Envi	I ironmentally hazardous	:	yes	
	R ironmentally hazardous	:	yes	
RID Envi	ironmentally hazardous	:	yes	
IMD Mari	G ine pollutant	:	yes	
	A (Passenger) ironmentally hazardous	:	yes	
	A (Cargo) ironmentally hazardous	:	yes	
14.6 Spe	cial precautions for use	r		

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks



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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable	
UK REACH Candidate list of substances of very hig concern (SVHC) for Authorisation	ıh :	Not applicable	
The Persistent Organic Pollutants Regulations (reta Regulation (EU) 2019/1021 as amended for Great E ain)		Not applicable	
Regulation (EC) on substances that deplete the ozo	one :	Not applicable	
UK REACH List of substances subject to authorisat (Annex XIV)	ion :	Not applicable	
GB Export and import of hazardous chemicals - Price Informed Consent (PIC) Regulation	or :	Not applicable	
Control of Major Accident Hazards Regulations 201	5 (COMA	.H)	
		Quantity 1	Quantity
E1 ENVIRONMENT	AL	100 t	200 t

The components of this product are reported in the following inventories:

HAZARDS

AICS	: not determined
DSL	: not determined
IECSC	: not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information Other information Items where changes have been made to the previous version : are highlighted in the body of this document by two vertical lines. **Full text of H-Statements** H400 Very toxic to aquatic life. 2 H410 Very toxic to aquatic life with long lasting effects. : Full text of other abbreviations Aquatic Acute Short-term (acute) aquatic hazard 2 Aquatic Chronic Long-term (chronic) aquatic hazard 1 GB EH40 UK. EH40 WEL - Workplace Exposure Limits : Long-term exposure limit (8-hour TWA reference period) GB EH40 / TWA :

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the m	Classification procedure:	
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their



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intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN