Safety Data Sheet

Issue Date: 19-May-2014

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Version: 2.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier Product Name: Product Code Synonyms:

Sierrablen Plus 18-5-18+2MgO 41970125DB Sierrablen Plus 18-2.2-14.9+1.2Mg

1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended Use:Fertilizer. Restricted to professional users.Uses Advised Against:Consumer use [SU 21].

<u>1.3. Details of the supplier of the safety data sheet</u>
 <u>Manufacturer</u>
 Everris International BV
 Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

For further information, please contact INFO-MSDS@EVERRIS.COM 1.4. Emergency telephone number IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Mixture

Regulation (EC) No 1272/2008

Eye Irritation

Category 1 - (H318)

2.2. Label elements

Contains Ammonium Nitrate; NH4NO3, Potassium sulphate; K2SO4



Signal Word: Danger

Hazard Statements: H318 - Causes serious eye damage

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/ face protection P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

Other hazards (UN-GHS)

H316 - Causes mild skin irritation

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	EC-No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Potassium sulphate; K ₂ SO ₄	231-915-5	7778-80-5	25 - 40%	Eye Dam. 1 (H318)	01-2119489441-34
Ammonium Nitrate; NH4NO3	229-347-8	6484-52-2	10 - 25%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Urea	200-315-5	57-13-6	10 - 25%	Not classified	01-2119463277-33
Sulphur; S	231-722-6	7704-34-9	1 - 5%	Skin Irrit. 2 (H315)	01-2119487295-27
Magnesium oxide; MgO	215-171-9	1309-48-4	1 - 5%	Not classified	Exempt
Calcium sulphate dihydrate; CaSO4+2H2O	231-900-3	10101-41-4	0.1 - 1%	Not classified	01-2119444918-26
Calcium Carbonate; CaCO3	207-439-9	471-34-1	0.1 - 1%	Not classified	Exempt
Iron sulphate; FeSO ₄ +1H ₂ O	231-753-5	7720-78-7	0.1 - 1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57
Zinc sulphate mono hydrate; ZnSO₄+1H₂O	231-793-3	7446-19-7	< 0.1%	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119474684-27
Manganese sulphate; MnSO₄+1H₂O	232-08-99	7785-87-7	< 0.1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2119456624-35

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice:	First aid measures should be executed by trained personnel only.			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.			
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.			
Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If eye irritation persists, consult a specialist.			
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.			
Protection of First-Aiders:	Low hazard for usual industrial or commercial handling.			
4.2. Most important symptoms and	effects, both acute and delayed			
Symptoms:	None under normal processing			
4.3. Indication of any immediate medical attention and special treatment needed				
Notes to Physician:	None under normal processing.			

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO2, water spray or "alcohol" foam.

Unsuitable extinguishing media:

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions:Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to
safe areas.For Emergency Responders:Use personal protection recommended in Section 8.

6.2. Environmental precautions Do not allow product to enter the environment uncontrolled.

6.3. Methods and material for containment and cleaning up

Methods for Containment:Prevent further leakage or spillage if safe to do so.Methods for Cleanup:Take up mechanically and collect in suitable container for disposal. If material is
uncontaminated, collect and reuse as recommended for product.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep container tightly closed in a dry and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. 13

Bags or Bulk.

7.3. Specific end use(s) Specific use(s)

LGK (Germany)

Packaging Materials:

Fertilizer; Read and follow label instructions; www.everris.com

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Potassium sulphate; K2SO4					
Bulgaria - Occupational Exposure Limits - TWAs 10.0 mg/m ³ TWA					
Latvia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA				
Ammonium Nitrate; NH4NO3					
Australia TWA	N.A.				
Czech Republic OEL	10.0 mg/m³ TWA				
Urea					
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA				

Latvia Occupational Experies Limita TMAs	10 mg/m ³ TWA			
Latvia - Occupational Exposure Limits - TWAs Norway	TWA: 30 µg Hg/g Creatinine			
	STEL: 30 µg Hg/g Creatinine			
Sulphur; S				
Latvia - Occupational Exposure Limits - TWAs	6 mg/m³ TWA			
Russia TWA	6 mg/m³ TWA 1790			
Magnesium oxide; MgO				
Austria	STEL 20 mg/m ³ STEL 10 mg/m ³			
	TWA: 5 mg/m ³			
	TWA: 10 mg/m ³			
Australia TWA	10 mg/m ³ TWA fume			
Belgium - 8 Hr TWA	10 mg/m ³			
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA			
Czech Republic OEL	5 mg/m³ TWA			
Denmark	TWA: 6 mg/m ³			
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m ³			
Hungary - Occupational Exposure Limits - TWAs	6 mg/m ³ TWA			
Iceland - OEL - 8 Hour	6 mg/m ³ TWA Mg			
Ireland	TWA: 4 mg/m ³ TWA: 5 mg/m ³			
	TWA: 5 mg/m ³			
	STEL: 10 mg/m ³			
	STEL: 12 mg/m ³			
	STEL: 30 mg/m ³			
Korea - ISHA - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA (Serial No. 272)			
Malaysia - Occupational Exposure Limits - TWAs	10 mg/m ³ TWA (fume)			
Norway	TWA: 10 mg/m ³			
Poland	STEL: 20 mg/m ³ TWA: 10 mg/m ³			
Portugal	TWA: 10 mg/m ³			
Romania - Occupational Exposure Limits - TWAs	5 mg/m ³ TWA (fume)			
Spain OEL - Time Weighted Average (TWA):	TWA: 10 mg/m ³			
Singapore - OEL:PELs	10 mg/m ³ PEL			
Switzerland	TWA: 3 mg/m ³			
UK oes/mel:	STEL: 30 mg/m ³			
	STEL: 12 mg/m ³			
	TWA: 10 mg/m ³ TWA: 4 mg/m ³			
Calcium sulphate dihydrate; CaSO₄+2H₂O	TWA. 4 mg/m²			
Belgium - 8 Hr TWA	10 mg/m³ TWA			
Portugal	TWA: 10 mg/m ³			
Spain OEL - Time Weighted Average (TWA):	TWA: 10 mg/m ³			
Switzerland	TWA: 3 mg/m ³			
Calcium Carbonate; CaCO3				
Australia TWA	10 mg/m ³ TWA inhalable dust			
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m³ TWA			
Czech Republic OEL	10.0 mg/m³ TWA			
France - Occupational Exposure Limits - 8 Hour VMEs Latvia - Occupational Exposure Limits - TWAs	TWA: 10 mg/m ³ 6 mg/m ³ TWA			
Poland	TWA: 10 mg/m ³			
Portugal	TWA: 10 mg/m ³			
Switzerland	TWA: 3 mg/m ³			
Iron sulphate; FeSO4+1H2O				
Belgium - 8 Hr TWA	1 mg/m ³			
Denmark	TWA: 1 mg/m ³			
Finland	TWA: 1 mg/m ³			
Ireland	TWA: 1 mg/m ³			
	STEL: 2 mg/m ³			
Norway	TWA: 1 mg/m ³			
Dertural	STEL: 1 mg/m ³			
Portugal Spain OEL - Time Weighted Average (TWA):	TWA: 1 mg/m ³			
Spain OEL - Time Weighted Average (TWA): Switzerland	TWA: 1 mg/m ³ TWA: 1 mg/m ³			
UK oes/mel:	TWA: 1 mg/m ³			
Manganese sulphate; MnSO4+1H2O				
Austria	STEL 2 mg/m ³			
	TWA: 0.5 mg/m ³			
	÷			

Australia TWA	0.2 mg/m ³
Belgium - 8 Hr TWA	0.2 mg/m ³
Denmark	TWA: 0.2 mg/m ³
Finland	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³
Ireland	TWA: 0.2 mg/m ³
	STEL: 0.6 mg/m ³
Norway	TWA: 1 mg/m ³
	TWA: 0.1 mg/m ³
	STEL: 1 ppm
	STEL: 0.1 mg/m ³
Poland	TWA: 0.2 mg/m ³
	TWA: 0.05 mg/m ³
Portugal	TWA: 0.2 mg/m ³
Spain OEL - Time Weighted Average (TWA):	TWA: 0.2 mg/m ³
Switzerland	TWA: 0.5 mg/m ³
UK oes/mel:	TWA: 0.5 mg/m ³

Predicted No Effect Concentration No information available. (PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face Protection	No special protective equipment required.			
Skin and body protection	No special protective equipment required.			
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.			
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.			

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties	
Physical State:	Solid
Appearance:	Granules
Odor:	Not significant
Bulk density:	931 - 1081 kg/m³
pH:	no data available
Melting Point/Freezing Point:	no data available
Boiling Point/Range:	Solid, Not Applicable
Flash Point:	Solid, Not Applicable
Evaporation Rate:	Solid, Not Applicable
Flammability (solid, gas):	Non-flammable
Vapor Pressure:	Solid, Not Applicable
Vapor Density:	Solid, Not Applicable
Specific Gravity:	no data available
Water Solubility:	Soluble in water
Solubility(ies)	no data available
Partition Coefficient:	Solid, Not Applicable
Autoignition Temperature:	Not Applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information Not applicable

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity Not reactive.

 10.2. Chemical stability

 Stable under normal conditions.

 10.3. Possibility of hazardous reactions

 Possibility of hazardous reactions

 None under normal processing.

 Hazardous Decomposition Products:

 Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

Inhalation	May cause irritation of respiratory tract.		
Eye contact	May cause irritation.		
Skin Contact	May cause irritation.		
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.		
Information on Toxicological Effects:			
Symptoms	No information available.		

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document:ATEmix (oral):25,984.00 mg/kg

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Ingredients LD50 Oral		LD50 Dermal	LC50 Inhalation
Potassium sulphate; K ₂ SO ₄	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	
Ammonium Nitrate; NH4NO3	= 2217 mg/kg (Rat)		> 88.8 mg/L (Rat)4 h
Urea	= 8471 mg/kg (Rat)		
Sulphur; S	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat)4 h
Calcium Carbonate; CaCO ₃	= 6450 mg/kg (Rat)		
Iron sulphate; FeSO ₄ +1H ₂ O	= 500 mg/kg (Rat)		
Manganese sulphate;	= 782 mg/kg (Rat)		
MnSO ₄ +1H ₂ O			

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

No information available. skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available. Respiratory or skin sensitization **Germ Cell Mutagenicity** No information available. Carcinogenicity No information available. **Reproductive Toxicity** No information available. No information available. **STOT - Single Exposure STOT - Repeated Exposure** No information available. **Aspiration Hazard** No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Do not allow product to enter the environment uncontrolled.

Unknown Aquatic Toxicity:

7% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Potassium sulphate; K ₂ SO ₄	2900: 72 h Desmodesmus subspicatus mg/L EC50	653: 96 h Lepomis macrochirus mg/L LC50 3550: 96 h Lepomis macrochirus mg/L LC50 static 510 - 880: 96 h Pimephales promelas mg/L LC50 static	-	890: 48 h Daphnia magna mg/L EC50
Ammonium Nitrate; NH4NO3	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Urea	> 10000: 192 h Scenedesmus quadricauda mg/L EC50	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	3910: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna Straus mg/L EC50
Sulphur; S	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
Iron sulphate; FeSO₄+1H₂O	-	925: 96 h Poecilia reticulata mg/L LC50 static 0.56: 96 h Cyprinus carpio mg/L LC50 semi-static	-	152: 48 h Daphnia magna mg/L EC50 6.15 - 9.26: 48 h Daphnia magna mg/L EC50 Static

12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

Bioaccumulation:

No information available.

Ingredients	LOGPOW		
Ammonium Nitrate; NH4NO3	-3.1		
Urea	-1.59		

12.4. Mobility in soil

Mobility in soil No information available.

12.	5.	Results	of	PBT	and	vPvB	assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Mobility:

<u>14.3</u>

14.4

14.5

Hazard Class:

Packing group:

Environmental Hazard

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Disposal of Wastes:

Contaminated Packaging: Other Information: Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not re-use empty containers. Dispose of as unused product. Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG	
<u>14.1</u>	
UN-No:	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated
<u>14.3</u>	
Hazard Class:	Not regulated
<u>14.4</u>	
Packing group:	Not regulated
<u>14.5</u>	
Marine Pollutant:	Not regulated
<u>14.6</u>	
Special Provisions	None
<u>14.7</u>	
Transport in bulk according to Annex II of MARPOL 73/78	Not regulated
and the IBC Code	
ADR/RID	
<u>14.1</u>	
UN-No:	Not regulated
<u>14.2</u>	
Proper shipping name:	Not regulated

- Not regulated
 - Not regulated

<u>14.6</u>	
Special Provisions	

None

ΙΑΤΑ	
14.1	
UN-No: 14.2_	Not regulated
Proper shipping name:	Not regulated
<u>14.3</u> Hazard Class:	Not regulated
<u>14.4</u>	
Packing group: 14.5_	Not regulated
Environmental Hazard	Not regulated
<u>14.6_</u> Special Provisions	None

Section 15: REGULATORY INFORMATION

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

Component	Belgium - Major Accidents - Qualif Quantities for Safety Reporting	fying Belgium - Major Accidents - Qualifying Quantities for Accident Prevention
Ammonium Nitrate; NH4NO3 6484-52-2(10 - 25%)	2500 tonne (Note 3, applies to Ammonitrate in which the Nitrogen content Ammonium nitrate is >28% by weigh containing <=0.2 % combustible mat >24.5% and <28% by weight contain <=0.4% combustible material and to aqueous Ammonium nitrate solutions	onium 350 tonne (Note 3, applies to Ammonium due to t Ammonium nitrate in which the Nitrogen content due to Ammonium nitrate is >28% by weight containing <=0.2 % combustible material, >24.5% and <28% by weight containing <=0.4% combustible material and to aquee
<u>Denmark</u> Danish Sikkerhedsgruppe	No data available	.
Danish Sikkemedsgruppe		5
France ICPE	Not regulated	
Germany		
LGK (Germany)	13	
Water Endangering Class (WGK): Gefahrstoffverordnung (Germany) TRGS 511	1 (Everris classifi C III	cation)
Component	German W	GK Section
Potassium sulphate; K ₂ SO ₄ 7778-80-5 (25 - 40%)	class 1	
Ammonium Nitrate; NH₄NO₃ 6484-52-2(10-25%)	class 1	
Urea 57-13-6(10 - 25%)	class 1	
Sulphur; S 7704-34-9 (1 - 5%)	class 1	
Magnesium oxide; MgO 1309-48-4(1-5%)	class 1	
Iron sulphate; FeSO₄+1H₂O 7720-78-7(0.1-1%)	class 1	
Zinc sulphate mono hydrate; ZnSO₄+1H₂O 7446-19-7 (< 0.1%)	class 3	
Manganese sulphate; MnSO₄+1H₂O 7785-87-7(< 0.1%)	class 1	

European Union

REACH:

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium Nitrate; NH4NO3	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)
6484-52-2 (10 - 25%)	

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable.

15.2 Chemical safety assessment

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Chemical Safety Report
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Substance(s) usage is covered according to Reach regulation 1907/2006

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H319 Causes serious eye irritation
- H272 May intensify fire; oxidizer
- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H315 Causes skin irritation

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or

repeated exposure if swallowed

- H411 Toxic to aquatic life with long lasting effects
- H316 Causes mild skin irritation

Key or legend to abbreviations and acronyms used in the safety data sheet

- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
- ICAO: International Civil Aviation Organization
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PNEC: Predicted No Effect Concentration
- DNEL: Derived No-Effect Level
- Reach: Registration, Evaluation, authorization of Chemicals
- CLP: EU-GHS; Classification, Labelling and Packaging
- OEL: Occupational Exposure Limit
- TWA: Time Weighted Average
- ATE: Acute Toxicity Estimate
- EUH statement: CLP (EU) specific hazard statement

Classification procedure:

- Calculation method

	- Expert judgment and weight of evidence determination
Key literature references and sources for data	According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830 Regulation (EC) No 1272/2008
Prepared by:	Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)
Issue Date:	19-May-2014
Revision Date:	25-Oct-2016
Reason for revision	*** Indicates changes since the last revision. This version replaces all previous versions

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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