

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

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**1.1. Product identifier** Spectrum**1.2. Relevant identified uses of the substance or mixture and uses advised against** Poultry nutrition**1.3. Details of the supplier of the safety data sheet**

Manufacturer/Supplier Kilco (International) Ltd.  
Address Broomhouses 2 Industrial Estate, Old Glasgow Road Lockerbie, Dumfriesshire. DG11 2SD  
Phone Number +44 (0) 1576 205480  
Fax Number +44 (0) 1576 205483  
E-mail sds@kilco.co.uk

**1.4. Emergency telephone number** +44 (0) 207 858 1228 (24 hours)**SECTION 2: Hazards identification**

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**2.1. Classification of the substance or mixture**

Classification (1999/45/EEC) None

**2.2. Label elements**

**Labelling** None  
**Symbol (s)** None  
**Risk phrases** None  
**Safety phrases** S2 Keep out of reach of children

**2.3. Other hazards**

This product does not contain any PBT or vPvB substances.

**SECTION 3: Composition/information on ingredients**

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**3.2. Mixtures**

Chemical Characterisation: A liquid preparation containing vitamins and minerals.

Component	EINECS No:	CAS No:	% Inclusion	Classification	Concentration limits (Annex I 67/548/EEC)
Not classified as hazardous as it is a feedingstuff.					

**SECTION 4: First aid measures**

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**4.1. Description of first aid measures**

General advice Remove from exposure  
Eyes Rinse with plenty of water. If discomfort persists, seek medical advice.  
Skin Rinse with plenty of water. Remove contaminated clothing. If discomfort persists, seek medical advice. Rinse with plenty of water. Remove contaminated clothing. If discomfort persists, seek medical advice.  
Ingestion Rinse mouth with water and then drink water, If discomfort persists, seek medical advice.  
Inhalation Take affected persons out into the fresh air. If discomfort persists, seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**

Eyes Possible irritation  
Skin Possible irritation  
Ingestion Possible irritation  
Inhalation Possible irritation

**4.3. Indication of any immediate medical attention and special treatment needed**

Treatment : Treat symptomatically. If in doubt or symptoms persist, seek medical advice immediately.

**SECTION 5: Firefighting measures**

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**5.1. Extinguishing media**

Water spray, foam, dry powder or carbon dioxide.

**5.2. Special hazards arising from the substance or mixture**

None

**5.3. Advice for firefighters**

Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure that there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations. To cool, spray closed containers with water spray jet. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

**SECTION 6: Accidental release measures**

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**6.1. Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing, approved respirator, gloves, goggles etc – see section 8. Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away.

**6.2. Environmental precautions**

Observe regulations on preventions of water pollution (collect, dam up, cover up) Prevent the material from entering drains or watercourses.

**6.3. Methods and material for containment and cleaning up**

Large spillages should be collected for disposal. Collect in suitable containers. Keep away from incompatible substances. Clean contaminated surface thoroughly – recommended cleaning agent – water. Dispose of absorbed material in accordance with the regulations. Never return spilled product into its original containers for re-use.

**6.4. Reference to other sections**

Protective clothing - section 8. Disposal – Section 13.

**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

Wear suitable protective clothing. Avoid contact with skin, eyes and clothing. Do not inhale vapour, aerosols, and sprays. When using, avoid spray mists. Operate in a well ventilated place. For personal protection see Section 8. Handle in accordance with good industrial hygiene and safety practice. Immediately change moistened or saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Never return spilled product into its original containers for re-use. Avoid impurities. Transport and store container in upright position only. Do not empty container by means of pressure.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep away from incompatible substances. Keep only in the original container. Keep container closed and in a clean, cool, and well ventilated place away from heat, flammable materials and intense light. Avoid residues of the product on the containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters**

**Occupational Exposure Standards**

**EH40 WEL Short Term**

**EH40 WEL TWA**

None

**8.2. Exposure controls**

Eye / face protection

Not normally required

Hand protection

Gloves

Other Not normally required  
Respiratory protection Not normally required

**SECTION 9: Physical and chemical properties**

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**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Yellow / orange liquid	<b>Vapour pressure</b>	No data available
<b>Odour</b>	No data available	<b>Vapour density</b>	No data available
<b>Odour threshold</b>	No data available	<b>Relative density</b>	1.040 – 1.090
<b>pH</b>	3.80 – 4.80	<b>Solubility (ies)</b>	Water soluble
<b>Melting /freezing point</b>	No data available	<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Boiling point/boiling range</b>	No data available	<b>Auto-ignition temperature</b>	No data available
<b>Flash point</b>	No data available	<b>Decomposition temperature</b>	No data available
<b>Evaporation rate</b>	No data available	<b>Viscosity</b>	No data available
<b>Flammability (solid, gas)</b>	No flammable components	<b>Explosive properties</b>	No explosive components
<b>Upper/lower flammability or explosive limits</b>	No explosive components	<b>Oxidising properties</b>	Not an oxidiser

**9.2. Other information**

No Data

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No data supplied

**10.2. Chemical stability**

No data supplied

**10.3. Possibility of hazardous reactions**

No data supplied

**10.4. Conditions to avoid**

Extremes of temperature

**10.5. Incompatible materials**

No data supplied

**10.6. Hazardous decomposition products**

Oxides of carbon

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects**

Acute toxicity	No data supplied
Irritation	No data supplied
Corrosivity	No data supplied
Sensitisation	No data supplied
Repeated dose toxicity	No data supplied
Carcinogenicity	No components are classified as Carcinogenic
Mutagenicity	No components are classified as Mutagenic
Toxicity for reproduction	No components are classified as Toxic for reproduction

**SECTION 12: Ecological information**

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**12.1. Toxicity**

No data supplied

**12.2. Persistence and degradability**

No data supplied

**12.3. Bioaccumulative potential**

Product is not expected to bioaccumulate.

**12.4. Mobility in soil**

No data supplied

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

No data supplied

**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods**

Product disposal	Dispose of in accordance with all applicable local and national regulations.
Container disposal	Contaminated, empty containers must be disposed of as chemical waste. Residual chemical should be disposed of by incineration or by other modes of disposal in compliance with local legislation

**SECTION 14: Transport information**

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<b>14.1. UN number</b>	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not applicable
<b>14.4. Packing group</b>	Not applicable
<b>14.5. Environmental hazards</b>	Not applicable
<b>14.6. Special precautions for user</b>	Not applicable
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable

**SECTION 15: Regulatory information**

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

The Chemical (Hazard Information for Packaging and Supply) Regulations 2009 (SI 2009:716) and associated documents.  
COMMISSION REGULATION (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
HSE Guidance Note EH40 2007  
The European Agreement Concerning the Carriage of Dangerous Goods by Road (ADR), 2009 Edition.  
The International Maritime Dangerous Goods Code, (IMDG) 2010 Edition.  
The International Air Transport Association Dangerous Goods Regulations, (IATA), 2012 Edition.  
Safety Data Sheets provided by suppliers of component substances.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

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Note: Sections in italics indicate significant changes from the previous version

Full text of R phrases from section 3.

None

Training advice.

Those who are employed in the use of this product must be given training which highlights the need to handle and use it only in the recommended manner and at all times make use of the prescribed personal protective equipment.

Recommended restrictions on use.

This product should be stored and handled in accordance with guidance given above and used only in the recommended manner and in conformity with any legal requirements

This safety data sheet has been supplied in accordance with the requirements of Article 31 of Regulation EC No 1907/2006 (the REACH regulation) and the information contained herein is displayed in the order prescribed in Annex II to that regulation, as amended 2010. Its purpose is to facilitate the carrying out of a risk assessment. Employers are reminded of their duty to carry out such an assessment and subsequently to provide an appropriate working environment, to make available to those who are required to use this product all necessary personal protective equipment and to ensure that such equipment is used.

The safety data sheet is additional to the technical data sheet but does not replace it. The information given herein is to the best of our knowledge correct and given in good faith. It relates to the product in the state in which it is delivered. This product is for the uses specified and should only be used for those purposes. Any other use may involve risks. The user will take sole responsibility for the precautions relating to the use of the product. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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