



**INFORMATION SHEET FOR NON-HAZARDOUS MIXTURES**  
**Prepared according to EC Regulation 1907/2006 as amended. (art. 32)**  
**MINERAL AND ORGANO-MINERAL FERTILIZERS with one or more nutrients**

<b>1. Identification of substance and company</b>	
1.1 Product ID	
Trade name	<b>Multi-Biol NPK 3.6,5.10</b>
Chemical name	ND: mixture
EC Number	ND: mixture
CAS Number	ND: mixture
REACH registration number	Various and variable, depending on the composition of the mixture, available within 7 days after specific request by the authority
1.2 Relevant identified uses of the substance and uses advised against	
Identified uses	<u>Uses of other professionals</u> 1: <u>Sampling, loading, filling, transferring, unloading, bagging of substance (loading/unloading) in non-dedicated equipment</u> 2: <u>Transfer of substance in small containers (dedicated packaging line, also with weighing)</u> 3: <u>Professional use of fertilisers [open field fertilisation - soil fertilisation - open field fertilisation - outdoor and indoor mixing - greenhouse soil fertilisation - greenhouse fertilisation].</u> <u>Consumer uses:</u> 4: <u>Outdoor and indoor fertilisation, other products</u>
Uses not recommended	None
1.3 Details of the supplier of the safety data sheet	
Supplier	Blumen Group S.p.a. 29122 Piacenza (PC) Via Carlo Strinati 7/9 - Loc. Le Mose Italy
e-mail of the SDS controller	msds@blumen.it
1.4 Emergency telephone number	
For urgent information, contact Poison Control Centres (PCC), which are open 24 hours a day:	Milano – 0266101029 / Napoli – 0817472870 Pavia – 038224444 / Bergamo - 800883300 / Foggia 0881732326 / Firenze 0557947819 Roma – 063054343 opp. 0649978000
<b>2. Hazard identification</b>	
2.1 Substance classification	
Pursuant to EC Regulation 1272/2008 (CLP)	
Classification, Hazard statements	none
2.2 Label elements	
Labelling according to the Regulation 1272/2008 (CLP)	
Hazard symbols	none
Hazard indication	none
Cautionary advice	none
2.3 Other hazards	
PBT/vPvB criteria:	According to Annex XIII of EC Regulation 1907/2006 no PBT and vPvB assessments have been carried out as the substance is inorganic. vPvB assessments have not been performed as the substance is inorganic.
Other hazards	Not known
<b>Annotation</b>	<b>Studies conducted on some types of mineral and organo-mineral fertilisers have shown that the presence of basic buffering constituents as well as the organic substance itself acts on the free acids from other hazardous constituents making the mixture non-hazardous in terms of skin and eye irritation.</b>



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<b>3. Composition/information on ingredients</b>					
3.2 Mixture					
According to REACH the product is a mixture, the most significant constituents of which are listed below					
Chemical name	CAS no.	EC no.	IUPAC name	Content	Classification
calcium sulfate	7778-18-9	231-900-3	calcium sulfate	≥0 <50%	none
Phosphate rock	1306-05-4	215-144-1	Phosphate rock	≥0 <50%	none
Potassium sulfate	7778-80-5	231-915-5	Potassium sulfate	≥0 <65%	none with KHSO <sub>4</sub> <1%
Potassium sulfate	7778-80-5	231-915-5	Potassium sulfate	≥0 <10%	GHS05 H318 with KHSO <sub>4</sub> >3%
Organic substances vegetables	n.d.	n.d.	n.d.	≥0 <65%	none
Organic substances animals	n.d.	n.d.	n.d.	≥0 <65%	none
Magnesium sulphate	7487-88-9	231-298-2	Magnesium sulfate	≥0 <25%	none
Trace elements	n.d.	n.d.	n.d.	≥0 <3%	various
<b>No SVHC substances or other hazardous substances are present in quantities that would make the mixture hazardous.</b>					
<b>4. First-aid measures</b>					
4.1 Description of first aid measures					
Contact with eyes	Wash the eyes with plenty of running water for at least 10 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if it is easy to do so. Consult a doctor if irritation increases and persists.				
Contact with skin	Wash the affected area of the skin with soap and water for at least 5 minutes. Consult a doctor if irritation increases and persists.				
Ingestion	Wash out mouth with plenty of water and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice if symptoms persist. Check the label for nitrates, as the NO <sup>-</sup> ion can oxidise the 3 iron atoms in haemoglobin and may deprive organ tissues of oxygen (methaemoglobinaemia).				
Inhalation	Immediately remove the victim to fresh air if any adverse effects occur (e.g.				



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	dizziness, drowsiness or irritation of the respiratory tract). If not breathing, administer artificial respiration or if breathing is difficult, administer oxygen and consult a doctor. Do not use mouth-to-mouth respiration. Consult a physician if symptoms persist
<b>4.2 Main symptoms and effects, both acute and delayed</b>	
Acute effects	None known
Delayed effects	None known
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Inhalation of thermal decomposition gases (including from fire), containing oxides of nitrogen, phosphorus and sulphur, may cause irritation to the respiratory system.	
<b>5. Fire-fighting measures</b>	
<b>5.1 Extinguishing media</b>	
Suitable	Lots of water, however appropriate to the circumstances
Unsuitable	No known restrictions
<b>5.2 Special hazards arising from the substance or mixture</b>	
When heated or in case of fire, may produce toxic gases: nitrogen oxides, phosphorus oxides (e.g. P <sub>2</sub> O <sub>5</sub> ), Sulphur oxides (SO <sub>x</sub> ). Danger of formation of toxic pyrolysis products containing fluorine.	
<b>5.3 Recommendations for firefighters</b>	
No special measures. In case of fire, wear self-contained breathing apparatus and chemical protective suit. Avoid breathing fumes, stay upwind of fire. Open doors and windows to provide maximum ventilation.	
<b>6. Accidental release measures</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
Avoid dust formation and wind dispersion. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Use appropriate protective equipment.	
<b>6.2 Environmental precautions</b>	
Do not allow material to enter surface water or sewage systems. Do not discharge directly into a water source. of water. In case of accidental spillage or leakage into sewers or watercourses, contact local authorities.	
<b>6.3 Methods and materials for containment and cleaning up</b>	
For recovery or disposal vacuum or clean up and place in suitable labelled containers. Clean the affected area with a large quantity of water. Avoid dust formation and wind dispersion. Residual traces can be residual traces can be blown away.	
<b>6.4 Reference to other sections</b>	
See section 8 (personal protective equipment) and section 13 (waste disposal).	
<b>7. Handling and storage</b>	
<b>7.1 Precautions for safe handling</b>	
Technical measures/ precautions	Avoid contact with eyes, skin and clothing. Avoid dust formation and wind dispersion. Avoid contamination from all sources, including fuels (diesel, grease, etc.) and incompatible materials. Keep away from moisture. Clean used equipment thoroughly before maintenance or repair.
General hygiene	Do not bring hands to eyes during use. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Carefully remove potentially contaminated clothing and wash before re-use. Wash hands, arms and face after handling chemicals, before eating, smoking and using the toilet and at the end of the working period.



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<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
Technical measures / Methods of storage	Store in the original container. Keep container tightly closed in a cool, dry and well ventilated place. Keep product away from heat, direct sunlight, moisture and water and incompatible materials (alkalis). Suitable packaging materials: Stainless steel (304). Synthetic material.
Incompatible products	Alkalis (saline solutions)
<b>Quantitative limits under storage conditions</b>	
<b>8. Exposure control/personal protection</b>	
<b>8.1 Control parameters</b>	
Regulated occupational exposure limit values:	None General non-hazardous exposure limit for dust TLV-TWA 10 mg/m <sup>3</sup> (inhalable particles)
Exposure limit values for workers and consumers (following chemical safety assessment of many constituent substances)	No data available for mixture
<b>8.2 Exposure controls</b>	
<b>Appropriate technical controls</b>	
No special control equipment is required: good industrial practice is the use of adequate ventilation. In addition, an eye wash facility and a safety shower for material storage or use facilities is good practice.	
<b>Individual protection measures, types of personal protective equipment</b>	
Respiratory protection	Filter dust masks in case of high dust levels and/or in insufficiently ventilated rooms (e.g. EN 143, 149, filter P2, P3)
Hand protection	Protective gloves (e.g. plastic, rubber, leather) in case of high dust levels and/or prolonged handling
Eye protection	Chemical goggles or face shield
Skin and body protection	Appropriate work shoes and clothes
Environmental exposure control	Dispose of wash water according to local and national regulations, excessive amounts may cause eutrophication problems
<b>9. Physical and chemical properties</b>	
<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Solid, light grey to brown granular
Smell	Caratteristico in funzione delle sostanze presenti
pH (10 g/l) at 20°C	variable
Melting point	Absent, decomposes at >100°C
Boiling point	Absent, decomposes at >100°C
Flash point	Not relevant as the substance is an inorganic solid
Flammability	Non-flammable (depending on molecular structure)
Vapour pressure	Data not available
Relative density	Data not available
Solubility in water	1-100 g/l at 20°C
Partition coefficient n-octanol/water:	Not relevant as the substance is inorganic
Auto-ignition temperature	No auto-ignition
Viscosity	Not applicable to solids
Explosive properties	Non-explosive (depending on molecular structure)



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Oxidising properties	Non-oxidising (depending on molecular structure)
9.2 Other information: nothing to report	
<b>10. Stability and reactivity</b>	
10.1 Reactivity Stable under recommended storage and handling conditions	
10.2 Chemical stability Stable under recommended storage and handling conditions	
10.3 Possibility of hazardous reactions: When heated: decomposition products	
10.4 Conditions to avoid: Decomposes when heated. Avoid contact with alkalis	
10.5 Incompatible materials: Alkalis, Acids	
10.6 Hazardous decomposition products No danger under normal handling and storage conditions. During heating or in case of fire, may produce toxic gases: nitrogen oxides, phosphorus oxides (e.g. P <sub>2</sub> O <sub>5</sub> ), sulphur oxides (Sox). Danger of formation of toxic pyrolysis products containing fluorine.	
<b>11. Toxicological information</b>	
11.1 Information on toxicological effects	
Oral acute toxicity	LD <sub>50</sub> : >2000 mg/kg pc
Acute dermal toxicity	LD <sub>50</sub> : >2000 mg/kg pc
Acute inhalation toxicity	LC <sub>50</sub> : > 5 mg/l
Skin irritation	Non-irritating
Eye irritation	Non-irritating
Corrosiveness	Based on available data the classification criteria are not met
Skin sensitisation	Non-sensitising
Carcinogenicity	Data not available
Mutagenicity	Negative
Reproductive toxicity	Data not available
Sub-acute toxicity	Data not available
<b>12. Environmental information</b>	
12.1 Toxicity	
Fish (short term)	Data not available
Fish (long term)	Data not available
Daphnia magna (short-term)	Data not available
Daphnia magna (long term)	Data not available
Algae	Data not available
Inhibition of microbial activity	Data not available
12.2 Persistence and degradability	
Biodegradabilità	Cannot be tested as the substance is inorganic. This product dissociates into calcium, sulphate and phosphate ions, which cannot be further degraded. The product should not be allowed to enter wastewater in large quantities. nutrient for plants and cause eutrophication.
Hydrolysis	There are no hydrolysable groups, it completely dissociates into ions
12.3 Bioaccumulation potential	
Partition coefficient n-octanol/water	Not significant as the substance is inorganic, in any case considered to be low
Bioconcentration factor (BCF)	Low potential for bioaccumulation, given the properties of the substance
12.4 Mobility in soil	



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Absorption coefficient	Low absorption potential, given the properties of the substance
12.5 Results of PBT and vPvB assessment As the substance is inorganic, according to Annex XIII of EC Regulation 1907/2006, no PBT and vPvB assessments have been performed.	
12.6. Other adverse effects: No information available	
<b>13. Disposal considerations</b>	
13.1. Waste treatment methods	
Waste from residues	In accordance with local and national regulations arising from EU provisions, dispose of in landfill or incinerate.
Containers	Containers must be properly cleaned before being reused or disposed of as waste according to regional or national regulations arising from EU provisions. We It is recommended not to remove the label until the container has been properly cleaned.
<b>14. Transport information</b>	
<b>International transport rules</b> ADR/RID Class: None - ADNR Class: None - IATA Class: None	
<b>15. Regulatory information</b>	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	Legislative Decree 152/2006 as amended; Legislative Decree 81/2008 as amended - Directive 2000/06 (phosphates) There are no substances on the candidate list (SVHC). There are no substances in authorization
15.2 Chemical safety assessment	A chemical safety assessment (CSA) of the mixture has not been carried out, but CSAs of the constituent substances exist
<b>16. More information</b>	
The information provided in this safety data sheet is correct to the best of our knowledge and information at the date of its publication. The information is provided only as a guide for handling, use, storage, transport, disposal and release and is not to be considered as a specific guarantee of quality. The information relates only to the specific material and may not be valid for such material used in combination with other materials or any other material. with other materials or in any other process unless specifically stated in the text.	
Classification according to Annex VI of Regulation (EC) No 1272/2008: None.	
Acronyms and abbreviations EWC - European Waste Catalogue DNEL - Derived No-Effect Level ECHA - (European Chemicals Agency) European Chemicals Agency IUPAC - International Union of Pure and Applied Chemistry NOAEL - (No observed adverse effect level) Dose with no observable adverse effect NOEC - (No Observed Effect Concentration) Maximum no-effect concentration EC number - EINECS number (European Inventory of Existing Commercial Chemical Substances) CAS number: Chemical Abstracts Service OECD - OECD (Organisation for Economic Co-operation and Development) PBT - (Persistent Bioaccumulating and Toxic) Persistent, Bioaccumulating and Toxic substance pc/g - body weight/day REACH - (Registration, Evaluation and Authorization of Chemicals) Regulation for Registration, Evaluation and Authorization of Chemicals TLV - (Threshold Limit Value) Threshold Value TSP - Concentrated superphosphate (triple) TWA - (Time-Weighted Average) Weighted Average vPvB - (very Persistent very Bioaccumulating) Substance very Persistent very Bioaccumulative	
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