

**BLINDAX-SB**

1 Identification of the substance/mixture and of the company/undertaking				
1.1	Commercial name of the product	BLINDAX-SB		
	Chemical name	Lecithin		
	Synonyms	Lecithin		
	Chemical formula	Not available		
	EU-index number (Annex 1)	Not available		
	CE No	288-318-8		
	CAS No.	85711-58-6		
	REACH Registration Number	Not available		
1.2	Use of the substance/preparation	Concentrated liquid / diluted use.		
1.3	Company name	Mirat Fertilizantes s.l.u		
	Company address	Avenida aldehuela, 10 Bajo 37003, Salamanca, España.		
	Company Phone	+34 92 310 30 14		
	Company e-mail	<a href="mailto:vitaterra@mira.net">vitaterra@mira.net</a>		
1.4	Emergency telephone	Spain. National Institute of Toxicology +34 91 562 04 20		
2 Hazards identification				
2.1	Classification	Not classified as hazardous		
2.2	Label elements			
2.2	According to Regulation 1272/2008	Pictograms	Word of caution	Indications of danger
		N.A.	N.A.	N.A.
2.3	Other hazards	P101, P102, P103, P264, P270, P280, P301+P330+P331, P302+P352, P305+P351+P338, P332+P313, P411, P501.		
* For the full meaning of R-phrases and/or hazard statements (H): see section 16.				
3 Composition/information on ingredients				
	Name	%p/p	Nº CAS	CLASSIFICATION R. 1272/2008
	Lecithins	75,00 %	85711-58-6	Not classified as hazardous
	Water	25,00 %	7732-18-5	Not classified as hazardous
May contain other substances in such quantities that they do not affect the classification of the product:				
Not Applicable				
4 First aid measures				
4.1	Description of first aid measures			
	Inhalation	Remove the person from the place of the accident and take him/her to a ventilated place, place the victim at rest.		
	Ingestion	If the product has been swallowed and the person is conscious, rinse mouth. Do not induce vomiting and seek medical attention.		
	Skin contact	Remove contaminated clothing and wash exposed skin areas with mild soap and plenty of water for 5 - 10 minutes. If discomfort exists, consult a physician.		
	Eye contact	Remove contact lenses if necessary and rinse immediately with plenty of water for 5 - 10 minutes. If there is discomfort, consult a doctor.		
4.2	Main symptoms and effects			
	Skin	May cause itching, redness and irritation.		
	Eyes	Eye itching and discomfort, redness.		
	Ingestion	May cause nausea and irritation of the digestive tract.		
	Inhalation	If inhaled it may cause itching and discomfort of the respiratory mucous membranes.		
4.3	Indication of all medical care and special treatments	There is no specific antidote. In case of accident follow the indications indicated above. Show this safety data sheet and recommend symptomatic treatment.		
5 Firefighting measures				
5.1	Extinguishing media	Recommended: Use water spray, carbon dioxide (CO2), foam or dry powder, taking into account other substances and products stored.		
	Extinguishing media NOT to use	Direct waterjet		
5.2	Special hazards	In case of combustion or thermal degradation, toxic gases may be produced from the containers. Fire residues and contaminated extension water should be disposed of according to local regulations.		
5.3	Advice for firefighters	In case of fire in the surroundings, follow the indications below: 1-High temperatures may result in high pressures inside closed containers. 2-Avoid inhalation of fumes or vapors generated. Use suitable respiratory equipment. 3-Do not allow spills from fire extinguishing to flow into drains or watercourses.		
	Special protection in firefighting	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face mask operating in positive pressure mode. Firefighter clothing (including helmets, gloves and protective boots) conforming to European standard EN 469 provides a basic level of protection in the event of a chemical incident.		
6 Accidental release measure				
6.1	Personal precautions, protective equipment and emergency procedures	Restrict access area, do not touch or walk through spilled material, stop leak if it can be done without risk. Wear work clothes and shoes when using or handling this product. Protective side shields, plastic gloves, rubber aprons should be worn. Operators should be instructed in the use of safety equipment.		
6.2	Environmental precautions	Prevent the product from reaching the sewage system. Avoid soil contamination.		
6.3	Methods and material for containment and cleaning up	Use inorganic, inert, non-combustible absorbent material. Collect the material for disposal and place it in a clean and dry container for disposal, according to the required legislations. Wash the area with water and detergent.		
6.4	Reference to other sections	Note: see section 8 for personal protective equipment and section 13 for waste disposal.		
7 Handling and storage				
7.1	Precautions for safe handling	Use personal protective equipment, avoiding contact with skin, eyes and clothing. Ensure adequate ventilation. Do not eat, smoke or drink while handling the product. Wash hands after handling the product and before eating, drinking or smoking. Remove clothing immediately if product gets inside and/or comes in contact with the product. Wash hands and skin thoroughly after handling.		
7.2	Conditions for safe storage, including any incompatibilities	Keep the product in the original container tightly closed, in a cool, ventilated and covered place. Store according to local / national regulations, observing the precautions indicated on the labeling.		
	Recommended packaging materials	HDPE (High Density Polyethylene) plastic containers		

7.3 Specific end use(s) Basic substance agriculture

Note: stability and reactivity, see Section 10.

8 Exposure controls/personal protection

8.1	Exposure limit values		Time-weighted average (TWA)		Lecithins		Not available						
					Water		Not available						
	ISQ derived	DNEL	Industrial			Consumer							
			Oral										
			Lecithins		Not available		Not available		Not available				
			Water		Not available		Not available		Not available				
			Inhalatory										
			Lecithins		Not available		Not available		Not available				
	PNEC	DNEL	Water		Not available		Not available		Not available				
			Lecithins		Not available		Not available		Not available				
			Water		Not available		Not available		Not available				
			Dermal										
Lecithins			Not available		Not available		Not available						
Water			Not available		Not available		Not available						
		Water		Air		Soil		Microbiological		Sediment		Oral	
		Lecithins		Not available		Not available		Not available		Not available		Not available	
		Water		Not available		Not available		Not available		Not available		Not available	
8.2 Exposure controls		If necessary, use local extractors											
Hygienic controls		It is recommended to handle the product in a ventilated place.											
Individual protection		Personal protective equipment: Use personal protective equipment according to Directive 89/686/EEC.											
Eyes		In general, safety glasses with side shields are recommended to protect against liquid splashes.											
Skin and body		Avoid contact with skin. The use of gloves is recommended.											
Respiratory		In case of insufficient ventilation, use suitable respiratory equipment.											
Control de la exposición del medio ambiente		Do not discharge into running water or sewage system.											
Choose personal protection adapted to the risks of exposure.													

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance	Liquid
Color	Black
Odor	Penetrating
Dilution pH	3,5-4,5
Melting point	Not applicable
Boiling point	> 100°C
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Explosive properties	Not explosive
Upper/lower flammability limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1,06 ± 0,05 g/mL
Solubility	Soluble in water
Partition coefficient n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not applicable
Explosive properties	Not applicable

10 Stability and reactivity

10.1 Reactivity	Stable under normal handling and storage conditions
10.2 Chemical stability	Stable under normal handling and storage conditions
10.3 Possibility of hazardous reactions	No known hazardous reactions under normal process conditions.
10.4 Conditions to avoid	Heat, flames and other sources of ignition.
10.5 Incompatible materials	Acids, oxidizing minerals, strong reducing or oxidizing agents.
10.6 Hazardous decomposition products	Carbon monoxide and unidentified organic compounds may be formed during the process.

11 Toxicological information

11.1 Information on toxicological effects						
Acute toxicity						
Component	N° CAS	Method	Species	Via	Result	
Lecithin	85711-58-6	Not available	Not available	Not available	Not available	
Water	7732-18-5	Not available	No disponible	Not available	Not available	
Corrosion / skin irritation						
Component	N° CAS	Method	Species	Via	Result	
Lecithin	85711-58-6	Not available	Not available	Not available	Not available	
Water	7732-18-5	Not available	No disponible	Not available	Not available	
Severe eye injury/irritation						
Component	N° CAS	Method	Species	Via	Result	
Lecithin	85711-58-6	Not available	Not available	Not available	Not available	
Water	7732-18-5	Not available	No disponible	Not available	Not available	
Respiratory system or skin sensitization						
Component	N° CAS	Method	Species	Via	Result	
Lecithin	85711-58-6	Not available	Not available	Not available	Not available	
Water	7732-18-5	Not available	No disponible	Not available	Not available	
Carcinogenicity						
Component	N° CAS	Method	Species	Via	Result	
Lecithin	85711-58-6	Not available	Not available	Not available	Not available	
Water	7732-18-5	Not available	No disponible	Not available	Not available	

Mutagenicity in germ cells							
Component	N° CAS	Method	Species	Via	Result		
Lecithin	85711-58-6	Not available	Not available	Not available	Not available		
Water	7732-18-5	Not available	No disponible	Not available	Not available		
Reproductive toxicity							
Component	N° CAS	Method	Species	Via	Result		
Lecithin	85711-58-6	Not available	Not available	Not available	Not available		
Water	7732-18-5	Not available	No disponible	Not available	Not available		
Specific target organ toxicity (STOT) - single exposure							
Component	N° CAS	Method	Species	Via	Result		
Lecithin	85711-58-6	Not available	Not available	Not available	Not available		
Water	7732-18-5	Not available	No disponible	Not available	Not available		
Specific target organ toxicity (STOT) - repeated exposure							
Component	N° CAS	Method	Species	Via	Result		
Lecithin	85711-58-6	Not available	Not available	Not available	Not available		
Water	7732-18-5	Not available	No disponible	Not available	Not available		
Aspiration hazard							
Component	N° CAS	Method	Species	Via	Result		
Lecithin	85711-58-6	Not available	Not available	Not available	Not available		
Water	7732-18-5	Not available	No disponible	Not available	Not available		
12 Ecological information							
12.1 Toxicity							
Aquatic toxicity							
Component	N° CAS	Fish	Crustaceans	Algae			
Lecithin	85711-58-6	Not available	Not available	Not available			
Water	7732-18-5	Not available	Not available	Not available			
Terrestrial Toxicity							
Component	N° CAS	Macroorganisms	Microorganisms	Other organisms			
Lecithin	85711-58-6	Not available	Not available	Not available			
Water	7732-18-5	Not available	Not available	Not available			
Microbiological activity in wastewater treatment plants							
Component	N° CAS	Toxicidad a microorganismos acuáticos					
Lecithin	85711-58-6	Not available					
Water	7732-18-5	Not available					
12.2 Persistence and degradability							
Component	N° CAS	Aquatic life	Photolysis	Biodegradability			
Lecithin	85711-58-6	Not available	Not available	Not available			
Water	7732-18-5	Not available	Not available	Not available			
12.3 Potencial de bioacumulación							
Component	N° CAS	Octanol-water partition coefficient (Kow)	Bioconcentration factor (BCF)	Bioaccumulation potential			
Lecithin	85711-58-6	Not available	Not available	Not available			
Water	7732-18-5	Not available	Not available	Not available			
12.4 Mobility on the ground							
Component	N° CAS	Result					
Lecithin	85711-58-6	Adsorption	Not available				
		Volatilization	Not available				
Water	7732-18-5	Adsorption	Not available				
		Volatilization	Not available				
12.5 Results of PBT and vPvB assessment							
Not determined							
12.6 Other adverse effects							
N.A.							
13 Disposal considerations							
13.1 Waste treatment methods							
Packaging/containers: Containers with product residues should be disposed of as non-hazardous organic waste. Dilute and neutralize product residues. Empty waste at appropriate facilities. Disposal conditions: Dispose of product residues and its containers with all possible precautions and in accordance with local and national regulations in force.							
14 Transport information							
14.1 - 14.6	Información Reglamentaria	ONU Number	Proper shipping name	Class	Packing group	Environmental hazards	Special precautions for users
14.1 - 14.6	International carriage of dangerous goods by road (ADR)	Not applicable	Not classified as hazardous material for transport within the transport regulations				
	Maritime Transportation (IMDG)	Not applicable	Not classified as hazardous material for transport within the transport regulations				
	Air transportation (ICAO/IATA)	Not applicable	Not classified as hazardous material for transport within the transport regulations				

14.7	<i>Transport in bulk according to Marpol 73/78 Annex II and IBC Code: Not applicable.</i>	
<b>15 Regulatory information</b>		
15.1	<b>Safety, health and environmental regulations and legislation specific to the substance or mixture</b>	
	Las sustancias estan enlistadas en los inventarios EINECS, ELINCS, NLP, o bien estan exentas	
15.2	<b>Chemical Safety Assessment</b>	
	No data available	
<b>16 Other information</b>		
	<b>Hazard statements</b>	N.A.
	<b>Cautionary advice</b>	P101: If medical advice is needed , have product container or label at hand . P102: Keep out of reach of children . P103: Read label before use . P270: Do not eat , drink or smoke when using this product . P280: Llevar guantes /ropa protectora y gafas o máscara de protección . P264: Wear protective gloves /protective clothing /eye protection /face protection P 301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. . P302 + P352:IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses , if present and easy to do . Continue rinsing . P332 + P313: IF SKIN IRRITATION OCCURS . Get medical advice /attention. P411: Store at temperatures not exceeding 35C. P501: Dispose of contents according to your local laws
	<b>Bibliographic references and data sources</b>	Informe sobre la Seguridad Química de la sustancia. Documentos Guia EFMA/FERTILIZER EUROPE, Reglamento (UE) 540/2011. NA: Not applicable MMAD: Mean Mass Aerodynamic Diameter VLA-ED: environmental limit value (daily exposure) VLA-EC: environmental limit value (short duration) NOAEL: doses with no observed adverse effects DL50: 50% lethal dose CL50: 50% lethal concentration CE50: 50% effective concentration DNEL: concentration without derivative effect PNEC: expected concentration with no effect LOEC: lowest observed effect concentration NOEC: non observed effect concentrated NOAEC: non observed adverse effects concentrated
	<b>Abbreviations and acronyms</b>	
	<b>Adequate training for workers</b>	Mandatory training in Occupational Risk Prevention.
	<b>Modifications introduced in the current revision</b>	Adaptation to Regulation 453/2010
The information contained in this Safety Data Sheet is given in good faith and in the belief of its accuracy, based on the knowledge available about the product at the time of publication. It does not imply acceptance of any commitment or legal liability on the part of the Company for the consequences of its use or misuse in any particular circumstances.		

## Annexes to the Safety Data Sheet BLINDAX-SB Exposure Scenario 1

<b>1 Title of the Exposure Scenario</b>	
Professional use as a basic substance in agriculture	
<b>2 Description of the activities or processes covered by the exposure scenario.</b>	
Sector of Use (SU)	SU 22: Professional uses: Public sector (administration, education, entertainment, services, crafts, etc.)
Product Category (PC)	Basic Substance
Process Category (PROC)	PROC 2: Use in closed and continuous processes with occasional controlled exposure PROC 8a: Transfer of substances or preparations (loading/unloading) to or from ships or large containers in non-specialized installations PROC 8b: Transfer of substances or preparations (loading/unloading) to or from ships or large containers in dedicated facilities PROC 9: Transfer of substances or preparations in small containers (dedicated filling lines, including weighing) PROC 13: Processing of articles by dipping and pouring PROC 19: Manual mixing with close contact and use of only personal protective equipment
Article Category (AC)	Basic Substance
Environmental Emission Category (ERC)	ERC 8b: Indoor wide dispersive use of reactive substances in open systems ERC 8d: Extensive external dispersive use of processing aids in open systems ERC 8e: Extensive external dispersive use of reactive substances in open systems ERC 8e: Extensive external dispersive use of reactive substances in open systems
<b>3 Operating conditions (worst case)</b>	
<b>3.1 Operating conditions relating to use</b>	
Duration and frequency	> 4 hours per day
<b>3.2 Substance-related operating conditions</b>	
Physical form	Liquid (solutions)
Volatility	Low
Substance concentration	> 75% (liquid)
<b>3.3 Other operating conditions that determine exposure</b>	
The activity can be carried out both indoors and outdoors.	
<b>4 Risk management measures</b>	
<b>4.1 Measures relating to workers</b>	Wear safety glasses Good ventilation conditions Wear gloves Proper containment of the substance Minimize the number of exposed personnel Use effective contaminant extraction systems Minimize manual handling Avoid contact with contaminated objects and instruments Regular cleaning of work area and equipment Monitoring of the site to ensure that risk management measures are being implemented Training of personnel on good practices Maintain standard conditions of personal hygiene Information with Safety Data Sheet
<b>4.2 Measures relating to consumers</b>	Not applicable
<b>4.3 Environmental measures</b>	Not available
<b>4.4 Measures relating to waste</b>	Not available
<b>5 Estimated exposure under the conditions described.</b>	
<b>5.1 Worker exposure</b>	
If risk management measures are applied, exposure to the substance is not expected.	
<b>5.2 Consumer exposure</b>	
Not applicable	
<b>5.3 Indirect exposure of people through the environment</b>	
Not available	
<b>5.4 Environmental exposure</b>	
Not implemented	
<b>6 Information for the downstream user to evaluate operating conditions</b>	
Not relevant	

## Annexes to the Safety Data Sheet BLINDAX-SB Exposure Scenario 2

<b>1 Title of the Exposure Scenario</b>	
End use as an agricultural commodity by consumers	
<b>2 Description of the activities or processes covered by the exposure scenario.</b>	
Sector of Use (SU)	SU 21: Uses by consumers: Private residences (general public or consumers)
Product Category (PC)	Basic Substance
Process Category (PROC)	Not available
Article Category (AC)	Not available
Environmental Emission Category (ERC)	ERC 8b: Broad indoor dispersive use of reactive substances in open systems ERC 8e: Extensive outdoor dispersive use of reactive substances in open systems
<b>3 Operating conditions (worst case)</b>	
<b>3.1 Operating conditions relating to use</b>	
Duration and frequency	Not relevant
<b>3.2 Substance-related operating conditions</b>	
Physical form	Liquid (solutions)
Substance concentration	< 0,01% (p/p)
<b>3.3 Other operating conditions that determine exposure</b>	
Activity carried out both indoors and outdoors	
<b>4 Risk management measures</b>	

4.1	Measures relating to workers	Not applicable
4.2	Measures relating to consumers	Wear safety glasses Avoid splashes Apply downwind Read the product label
4.3	Environmental measures	Environmentally safe
4.4	Measures relating to waste	Manage waste according to local regulations.
<b>5 Estimated exposure under the conditions described.</b>		
5.1	Worker exposure	Not applicable
5.2	Consumer exposure	If operating conditions and risk management measures are applied, exposure is not expected to occur.
5.3	Indirect exposure of people through the environment	Not available
5.4	Environmental exposure	Not relevant
<b>6 Information for the downstream user to evaluate operating conditions</b>		
		Not relevant