

SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

Date of issue: 25/06/2018 Revision date: 25/06/2018 Supersedes: 15/07/2015 Version: 3.2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product form: Mixture
Trade name: AZUMO 80 WG

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category: Professional use. Consumer use.

Use of the substance/mixture: Use only as a fungicide and acaricide for agriculture and horticulture in accordance with the product

label. Authorized for exterior garden plants.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

AZUFRERA Y FERTILIZANTES PALLARES, S.A.

Av. Europa parcela 1 – 7 (Polígono Industrial Constanti)

43120 CONSTANTI – TARRAGONA - SPAIN TEL: + 34 977 524 650 FAX: + 34 977 524 651 afepasa@afepasa.com - www.afepasa.com

1.4. Emergency telephone number

Emergency number: +34 91 562 04 20

Country	Organization/Company	Address	Emergency number
Spain	Servicio de información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid	C/José Echegaray nº 4 28232 las Rozas de Madrid	+34 91 562 04 20

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Not classified

2.2 Label elements

Labelling according to Regulation (EC) № 1272/2008 (CLP)

Precautionary statements (CLP): P102: Keep out of reach of children.

P270: Do not eat, drink or smoke when using this product.

EUH statements: EUH401 – To avoid risks to human health and the environment; comply with the instructions

for use.

Extra phrases: Do not contaminate water with the product or its container

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name Product Identifier		%	Classification according to Regulation (EC) No. 1272/2008	
Sulfur		CAS Nº 7704-34-9 EC Nº # 231-722-6 EC Index Nº 016-094-00-1 REACH Nº 01-2119487295-27	80-90	Skin irrit. 2, H315

Full text of H-phrases, see section 16

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration as needed.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Ensure adequate flushing of eyes by separating eyelids with the fingers. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Give water to drink if victim completely conscious/alert. If vomiting occurs, keep the affected person inclined in order to avoid the vomit entering to the airways.

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

The product is not considered dangerous under normal conditions of use

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

When contacting a physician, take this SDS with you.

SECTION 5. FIREFIGHTING MEASURES

F 4	F+:	:- -	
5.1.	EXTIN	guishing	media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media: do not use jet streams

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire Sulphur oxides. Hydrogen sulphur.

5.3. Advice for firefighters

Firefighting instructions:

Evacuate area. Use spray water or fog for cooling exposed containers. Exercise caution when fighting any Chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1. For non-emergency personnel

Evacuate unnecessary personnel.

6.1.2. For emergency personnel

Protective equipment:

Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "•Exposure controls/personal protection".

Emergency procedures:

Ventilate area. Remove ignition sources.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls/personal protection

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SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Additional hazards when processed: Avoid dust production.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Wear protective equipment. Avoid contact with

skin, eyes and clothing. Keep away from sources of ignition – No smoking.

Hygiene measures: Wash hands and forearms thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from:

moisture, sources of ignition, strong oxidizing agents. Keep container closed when

not in use.

Incompatible products: Oxidizing agents, strong bases.
Incompatible materials: Sources of ignition, direct sunlight.

7.3. Specific end uses

No additional information available.

SECCTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Sulphur (7704-34-9)		
PNEC (Oral)		
PNEC oral (secondary poisoning)	0,22 mg/l	

8.2. Exposure controls

Appropriate engineering controls: Provide local exhaust or general room ventilation to minimize exposure to dust.

Emergency eye wash fountains and safety showers should be available in the

immediate vicinity of any potential exposure

Personal protective equipment: Avoid all unnecessary exposure

Materials for protective clothing: Wear suitable coveralls to prevent exposure to skin

Hand protection: Protective gloves

Eye protection: Chemical goggles or safety glasses
Skin and body protection: Wear suitable protective clothing

Respiratory protection: Wear appropriate mask. Dust mask with particle filter.









Other information:

Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical stateSolid granularColorLight brownOdourCharacteristicOdour thresholdNo data available

Ph solution 9,8 (solución al 1%, 22ºC)

Relative evaporation rate (butyl acetate =1)

Mo data available

Melting point

No data available

Freezing point

No data available

Boiling point

No data available

No data available

No data available

Auto-ignition temperature

Decomposition temperature

No data available

No data available

Flammability (solid, gas)

Not flammable (EEC MT A10)

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No data available Vapour pressure Vapour density No data available Relative density No data available

Soluble Solubility

Log Pow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available

Explosive properties Not explosive (EEC MT A14) Oxidizing properties Not oxidising. (EEC MT A17).

Explosive limits No data available

Additional information 9.2.

Suspensibility 80% min. Other properties Content S: 80%.

Apparent density 0,89 g/ml (CIPAC MT 33) compacted.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport

10.2. **Chemical stability**

Stable under normal conditions

10.3. Possibility of hazardous reactions

No polymerization. No dangerous reactions known under normal conditions of use. Sulfur is a strong reducing agent and it may generate explosions in contact with oxidizing agents. Acid gasses, like sulphur dioxide or sulphur steam mist, may be produced during sulphur combustion in the absence of oxygen.

Conditions to avoid

Direct sunlight. Extremely high of low temperatures. No flames, no sparks. Eliminate all sources of ignition.

10.5. **Incompatible materials**

Oxidising agents. Strong bases. Strong acids.

Hazardous decomposition products

Sulphur oxides. Hydrogen sulfide. Combustion produces toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not classified

Azumo 80 WG	
LD50 oral	>2000 mg/kg
LD50 dermal rat	>1000 mg/kg
Sulphur (7704-34-9)	
LD50 oral	>2000 mg/kg
LD50 dermal rat	>2000 mg/kg
LC50 inhalation rat (dust/mist- mg/l/4h)	5,43 mg/l/4h
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation :	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure)	Not classified
Sulphur (7704-34-9)	
NOAEL, subchronic, oral, rat	1000 mg/kg (90 days)
NOAEL, subacute, dermal, rat	400 mg/kg (28 days)

Specific target organ toxicity (repeated exposure) Not classified. Aspiration hazard: Not classified

Potential adverse human health effects and symptoms Based on the available data, the classification criteria are not met

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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Sulphur (7704-34-9)		
LC50 fish	< 14 ppm	
EC50 Daphnia	> 5000 ppm	

12.2. Persistence and degradability

Azumo 80 WG	
Persistence and degradability	Not established. Once sulfur is released into the environment, it is rapidly oxidized by bacteria, other microorganisms or spontaneously by the presence of oxygen, to become organic sulfur compounds. Sulfur is incorporated to the food chain by the action of the microorganisms present in water and soil, through oxidation and reduction reactions allowing the assimilation of these compounds by higher plants and animals.
Sulphur (7704-34-9)	
Persistence and degradability	Not established

12.3 Bioaccumulative potential

Azumo 80 WG	
Bioaccumulative potential	Not established
Sulphur (7704-34-9)	
Bioaccumulative potential	Not established

12.4. Mobility in soil

Azumo 80 WG	
Ecology - soil	Sulfur has, generally, a lifecycle and mobility similar to nitrogen's, characteristic of those nutrients
	essential for cellular life development. It is not solubilized in water.

12.5. Results of PBT and vPvB assessment

Δτιιμο	00	MIC	
AZIIMA	XII	W// (-	

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information: Avoid release into the environment

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to hazardous or special waste collection point.

Additional information: The use of incinerators is not recommended due to the occurrence of SO₂ during the

combustion, toxic to human and environment.

Ecology- waste materials: Avoid release into the environment

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SECTION 14. TRANSPORT INFORMATION

In accordance with ADR/RID/IMDG/IATA/AND

ADR	IMDG	IATA	ADN	RID		
14.1. UN number	L4.1. UN number					
14.2. UN proper shipping n	ame					
14.3. Transport hazard clas	s(es)					
14.4. Packing group	14.4. Packing group					
14.5. Environmental hazard	14.5. Environmental hazards					
Dangerous for th	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the		
environment: NO	environment: NO	environment: NO	environment: NO	environment: NO		
	Marine pollutant: NO					
	No supplementary information available					

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

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

15.1.1. EU Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) № 1907/2006:

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in	sulphur
Annex I to Regulation (EC) nº 1272/2008: Hazard classes 3.1. to 3.6, 3.7 adverse effects on sexual function and	
fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out		
Sulphur		

SECTION 16. OTHER INFORMATION

Data sources: REGULATION (EC) № 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging

of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (CE) № 1907/2006.

Other information: None

Full text of H- and EUH-phrases:

Skin irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation
EUH401	To avoid risk to human health and the environment, comply with the instructions of use

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SECTION 17. EXPOSURE SCENARIO

1. Use of Sulfur in Agrochemicals; professional

Cartina 4 European Carragia Title Culfe					
Section 1 Exposure Scenario Title: Sulfu	ır				
Title					
Uses in Agrochemicals					
Use Descriptor	T-				
Sector(s) of Use	22				
Process Categories	1, 4, 8a, 8b, 11,				
	Further informat	ion on the mapping and allocation of PROC codes is contained in Table 9.1			
Environmental Release Categories	8a,8b				
Specific Environmental Release	ESVOC SpERC 8.	11a.v1			
Category					
Processes, tasks, activities covered	unlination hu manu	al au sanchina angustina angultas and familias includina antinanant alam datum			
and disposal.	phication by mani	ual or machine spraying, smokes and fogging; including equipment clean-downs			
Assessment Method					
See Section 3.					
Section 2 Operational conditions and ri	sk management n	neasures			
	g				
Section 2.1 Control of worker exposure					
Product characteristics					
Physical form of product		Solid at STP, liquid at elevated operating temperature, vapour pressure <0.5			
		kPa. OC29			
Concentration of substance in product		Covers percentage substance in the product up to 100 % (unless stated differently). G13			
Amount used		Not applicable			
Frequency and duration of use/exposur	e	Covers daily exposures up to 8 hours (unless stated differently). G2			
Human factors not influenced by risk m	anagement	Not applicable			
Other Operational Conditions affecting		Operation is carried out at elevated temperature (> 20°C above ambient			
	•	temperature). OC7. Assumes a good basic standard of occupational hygien			
		is implemented. G1			
Contributing Scenarios		Specific Risk Management Measures and Operating Conditions			
General measures (skin irritants) G19		Avoid direct skin contact with product. Identify potential areas for indirect			
General measures (similaritedites) 615		skin contact. Wear gloves (tested to EN374) if hand contact with substance			
		likely. Clean up contamination/spills as soon as they occur. Wash off any skin			
		contamination immediately. Provide basic employee training to prevent /			
		minimise exposures and to report any skin problems that may develop. E3.			
		Other skin protection measures such as impervious suits and face shields			
		may be required during high dispersion activities which are likely to lead to			
		substantial aerosol release e.g. spraying. E4.			
CS15 General exposures (closed systems)		No other specific measures identified. EI20			
CS16 General exposures (open systems)		No other specific measures identified. EI20			
CS14 Bulk transfers CS81 Dedicated facility		No other specific measures identified. E120			
CS10 Spraying		No other specific measures identified. E120			
CS4 Dipping, immersion and pouring		No other specific measures identified. E120			
CS39 Equipment Cleaning and Maintenance		No other specific measures identified. E120			
Additional information on the basis for	the allocation of	the identified OCs and RMMs is contained in Appendices 1 to 2			
Section 2.2 Control of environmental ex	kposure				
Not applicable					
Section 3 Exposure Estimation					
3.1. Health					
	estimate workplac	e exposures unless otherwise indicated. G21.			
3.2. Environment	- 1	· ·			
Not applicable					
Section 4 Guidance to check compliance with the Exposure Scenario					
4.1. Health					
7.1. Health					

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Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. G32. Risk Management Measures are based on qualitative risk characterisation. G37.

Available hazard data do not support the need for a DNEL to be established for other health effects. G36. Users are advised to consider national Occupational Exposure Limits or other equivalent values. G38

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23.

4.2. Environment

Not applicable

2. Uses of Sulfur in Agrochemicals; consumer

Section 1 Exposure Scenario Title: Su	lfur				
Title	iiui				
Use in Agrochemicals					
Use Descriptor Sector(s) of Use	122				
	22				
Product Categories 12,22,27 Further inf		ormation on the mapping and allocation of PC codes is contained in Table 1.			
Environmental Release Categories	8a,8d	,			
Specific Environmental Release	ESVOC SpE	RC 8.11b	.v1		
Category		00 0pt/10 0/110/11			
Processes, tasks, activities covered					
Covers the consumer use in agrocher	nicals in liquid	and solid	forms.		
Assessment Method					
See Section 3.					
Section 2 Operational conditions and	l risk managen	nent mea	sures		
•					
Section 2.1 Control of worker exposu	ire				
Product characteristics					
Physical form of product		Calid at	CTD liquid at algusted analytica towards and according to the control of the cont		
Physical form of product		OC29	STP, liquid at elevated operating temperature, vapour pressure <0.5 kPa		
Concentration of substance in produc	et e	Unless	otherwise stated, cover concentrations up to 100%. [ConsOC1].		
Amounts used		Unless	Unless otherwise stated, covers use amounts up to 37500g. [ConsOC2].;		
		covers	covers skin contact area up to 6600cm2. [ConsOC5].		
Frequency and duration of use/expos	ure	Unless	Unless otherwise stated, covers use frequency up to 4 times per day		
		[ConsO	[ConsOC4].; covers exposure up to 8 hours per event. [ConsOC14].		
Other Operational Conditions affecting	ng exposure	Unless otherwise stated assumes use at ambient temperatures. [ConsOC15].;			
		assumes use in a 20 m ³ room. [ConsOC11].; assumes use with typical ventilation.			
		[ConsO			
Product Category			: Risk Management Measures and Operating Conditions		
		-	от поставительной выполняющий выполнающий выполнами выстичи выполнающий выполнающий выполнающий выполнающий выполн		
PC12:Fertilizers		ОС	Unless otherwise stated, covers concentrations up to 90%. [ConsOC1].		
FC12.Fe1tilize13		000	covers use up to 1 days/year[ConsOC3].; covers use up to 1 time/on day o		
			use[ConsOC4].; covers skin contact area up to 857.50 cm ² . [ConsOC5].; fo		
			each use event, assumes swallowed amount of 0.3g [ConsOC13].; for each		
			use event, covers use amounts up to 2500g. [ConsOC2].; covers outdoor		
			use. [ConsOC12].		
		RMM	No specific RMMs identified beyond those OCs stated		
PC22: Lawn and garden preparations, including fertilizers		ОС	Products containing Sulfur in high percentages (assume 90%) are sold for		
			acidification of soil, to treat certain plant diseases (e.g. scab on potatoes)		
			and as worm- deterrent. The products are provided as prill (pellets) in bags		
			of 1 kg. Recommended application frequency is of the order of once per		
			year. The exposure assessment is conducted using the <0.1 Pa band values		
			of the ESIG consumer assessment tool (Appendix 1.c).		
		RMM	No specific RMMs identified beyond those OCs stated		
PC27_n: Plant protection products		OC	Unless otherwise stated, covers concentrations up to 90%. [ConsOC1].;		
			covers use up to 1 days/year[ConsOC3].; covers use up to 1 time/on day of		
			use[ConsOC4].; covers skin contact area up to 857.50 cm ² . [ConsOC5].; for		
			each use event, assumes swallowed amount of 0.3g [ConsOC13].; for each		
			use event, covers use amounts up to 2500g. [ConsOC2].; covers outdoor		
			use. [ConsOC12]		
		RMM			
In Additional information on the bas	is for the alloce	<u> </u>	use. [ConsOC12]		
Section 2.2 Control of environmenta	-	<u> </u>	use. [ConsOC12] No specific RMMs identified beyond those OCs stated		
	-	<u> </u>	use. [ConsOC12] No specific RMMs identified beyond those OCs stated		
Section 2.2 Control of environmenta	-	<u> </u>	use. [ConsOC12] No specific RMMs identified beyond those OCs stated		
Section 2.2 Control of environmenta Not applicable	-	<u> </u>	use. [ConsOC12] No specific RMMs identified beyond those OCs stated		

Chapter R15 of the IR&CSA TGD. Where exposure determinants differ to these sources, then they are indicated. G42

The ECETOC TRA tool has been used to estimate consumer exposures, consistent with the content of ECETOC Report #107 and the

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3.2. Environment

Not applicable

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Predicted exposures are not expected to exceed the applicable consumer reference values when the operational conditions/risk management measures given in section 2 are implemented. G39.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23.

4.2. Environment

Not applicable