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	Issued on: 19. 04. 1995
Trade name: PEPELIN WG	Revised on: 30.11.2022
	Version: 18

1. Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier (Product registration number, nanoform, UFI):	PEPELIN WG
1.2.	Relevant identified uses of the substance/mixture and uses advised against:	Inorganic sulphur salt - Plant Protective Product (PPP): preventive contact fungicide Not mixed with emulsifiable concentrates (EC) and oil formulations.
1.3.	Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user or distributor):	
1.3.1.	Supplier name:	Agrostulln GmbH
1.3.2.	Supplier address and phone:	Werksweg 2, D-92551 Stulln, Germany, +49 9435/3069-0
1.3.3.	E-Mail (competent person):	drc.moser@agrostulln.de or vesna.gabersek@cinkarna.si
1.4.	Emergency phone number:	+49 911/3982451 (Agrostulln) or +386 3 427 61 12 (Cinkarna Celje)

2. Hazards identification

2.1.	Classification of substance or mixture:	Regulation (EC) No 1272/2008 Not classified
2.2.	Label elements:	P102, P270
2.3.	Other hazards:	EU H401 To avoid risks to human health and the environment, comply with the instructions for use. SP1 Do not contaminate water with the product or its container. Do not clean application equipment near surface water/ Avoid contamination via drains from farmyards and roads.

3. Composition/information on ingredients

3.1.	Substances/ mixture: PEPELIN WG
/3.2	

Chemical name	CAS No. EC No. Index No.	REACH Registration No. Reference No.	% wt/vol/max. conc.	Classification according to Regulation (EC) No 1272/2008 (CLP)	SCL, M-factor, ATE
Sulphur (S)	7704-34-9 231 Sulphur (S) -722-6		80 wt. %	Not classified as hazardous.	No data.

4. First aid measures

4.1.	Description of first aid measures:	<u>General measures:</u> Provide the necessary security for rescues. Patient is immediately removed from the contaminated area into fresh air or into well - ventilated area and protect him from the cold or heat. In case of unconsciousness place him in unconscious position (on the left side). In case of respiratory arrest and / or cardiac arrest - according to the standard ABC process: release of the airways,
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		artificial respiration and heart massage. Call medical support and submit original packaging with the label.
	Inhalation:	The patient is immediately removed from the contaminated area to fresh air.
	Skin contact:	Remove contaminated clothing and shoes (wash separate from household laundry before reuse). Wash skin with plenty of water and soap until no evidence of chemical remains. If necessary, seek medical assistance.
	Eyes/mycosis contact:	Using the thumb and forefinger open up eye lids and rinse the opened eye for 15 minutes under running water or physiological saline. Contact lenses should be removed immediately. If irritation and redness persist, seek medical attention.
	Ingestion:	Wash out mouth with water and give water to drink. Do not induce vomiting. Seek medical attention.
4.2	Most important symptoms and effects, acute and delayed:	Swallowing of the product can cause flatulence and diarrhoea.
4.3.	Indication of any immediate medical attention and special treatment needed:	By measures for first aid. Not wash the stomach, unless advised by Poison Control Centre. Activated charcoal is given only if advised by Poison Control Centre. To provide and maintain the necessary basic life functions. A specific antidote is not known. Treatment is symptomatic.

5. Firefighting measures

5.1.	Extinguishing media	
	Appropriate media:	Use dry extinguishing media, carbon dioxide (CO ₂), water mist, water spray, foam.
	Inappropriate media:	Do not use compact water jet.
5.2.	Specific hazards arising from the substance or mixture:	Burning material forms highly toxic and irritant sulphur dioxide. Water from the fire should not be allowed to enter drain systems or watercourses. It should be separately collected and disposed of at an appropriately regulated landfill, in accordance with the applicable Rules of the disposal of hazardous waste.
5.3.	Advice for firefighters:	Protective clothing: Wear self-contained respiratory equipment and a full protective suit.

6. Accidental release measures

6.1.	Personal precautions protective equipment and emergency procedures	Avoid development of dust.
6.1.1.	For non-emergency persons:	See section 6.3.2
6.1.2.	For emergency responders:	See section 4.1
6.2.	Environmental precautions:	Potential for water contamination – inform the competent services.
6.3.	Methods and material for containment and cleaning up:	
6.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Sweep up and place in suitable containers in accordance with regulations. Avoid development of dust.
6.3.2.	Appropriate cleaning procedures	
	Neutralization techniques:	Flush remainder with water (absorb the remainder with sand, earth, vermiculite).
	Decontamination techniques:	Spillage: protect the affected area; danger warnings must be placed in order to protect the contaminated area; notify responsible authorities about the existing danger; withdraw all workers against the direction of the wind; use personal protective equipment (as described in 8.2.2); call the relevant Center for more information.

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	Absorbent materials:	Neutral absorbent materials: soil, turf, sand or other absorbent material.
	Cleaning techniques:	In the case of spillage pick up the product with a shovel and place it into a clean and labeled container with a fully sealable lead. Do not breathe in the dust. If the product can not be re-used it should be disposed of in accordance with the applicable Rules of the disposal. If the product is mixed with absorbent material in moisture soil, it should be mechanically removed like waste. We use personal protective equipment (read 8.2.2). After work the soil and dirty objects area is washed with water and detergent. Waste water should not enter drain systems or watercourses.
	Sucking techniques:	A vacuum cleaner may only be used, if it is explosion-proof.
	Required equipment for retaining /cleaning:	The equipment used depends on the type and extent of contamination. General equipment: tank, neutral absorbent material, shovel and foil to prevent dusting. Cleaning is carried out under supervision of experts. Usually fire management intervention is supervising.
6.3.3.	Inappropriate cleaning or retaining techniques:	Do not allow rinsate from cleaning of equipment or disposed material to enter surface or ground water.
6.4.	Reference to other sections:	Not required.
7. Handling and storage		
7.1.	Precautions for safe handling	
7.1.1.	Recommendations shall be specified to:	Mandatory use of personal protective equipment (read section 8.2.2.). Follow instructions for safe handling of Plant Protective Product.
	Safe handling of substance or mixture:	Use only in a well-ventilated area. Minimize dust generation and accumulation. Follow all instructions for use and SDS.
	Prevent handling of incompatible substances or mixtures:	Store protected from moisture in a suitable pesticide store. Keep away from heat (protect from direct sunlight).
	Operations and conditions which create new risks by altering the properties of the substance or mixture, and to appropriate countermeasure:	There is no change in the properties of the substance, so there is no risk and no appropriate countermeasures.
	Reduce the release of the substance or mixture to the environment:	Follow all instructions for use and SDS.
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands ...):	Avoid ingestion and inhalation. Wash contaminated clothing and other protective equipment before storing or re-using.
7.2.	Conditions for safe storage, including any incompatibilities	
	Management of risk associated with:	
	- explosive atmospheres:	Not required.
	- corrosive substances:	Not required.
	- incompatible substances or mixtures:	Emulsifiable concentrates (EC) and oil formulations.
	- evaporation substances:	Not required.
	- potential ignition sources:	Store protected from ignition sources.
	How to control the effects of	
	- weather conditions:	Product shouldn't be exposed to rain.
	- ambient pressure:	Not required.
	- temperature:	Store product in close original container in a dry and cool, well-ventilated area. Tmin. = 5°C; Tmax. = 30°C.
	- sunlight:	Product must be separated from direct sunlight.

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	- humidity:	Store protected from moisture.
	Securing integrity of substance or mixture by use of:	
	- stabilisers:	Not required.
	- antioxidants:	Not required.
	Other advice including:	
	- ventilation requirements;	Ventilation (local and spatial).
	- specific designs for storage rooms or vessels (including retention walls and ventilation):	Unspecified.
	- quantity limitations regarding storage conditions:	Unspecified.
	- packaging compatibility:	Product is compatible with the packaging.
7.3.	Specific end use(s):	Use only in accordance with instructions (point 1.2).

8. Exposure control/ personal protection

8.1.	Control parameters	
8.1.1.	-Limit values (MV):	The total value of the emission (dust): 4 mg/m ³ of air, must not be exceeded.
	-Limit values (BAT):	
	DNEL:	There are no data.
	PNEC:	There are no data.
8.2.	Exposure control	Ventilation (locally and spatially).
8.2.1.	Appropriate engineering controls:	Not required.
8.2.2.	Personal protective equipment:	
	- respiratory protection:	In enclosed spaces use a particle filter (standard EN 143:2001).
	- skin protection:	The degree of protection depends on the purpose of handling of the substance. We can use protective clothing (standard EN 340:2004), which can be washed after use and re-worn, and rubber footwear or footwear protecting against chemicals (standard EN 13832-1:2006). After work we wash with water and soap.
	- hand protection:	Chemical-resistant protective gloves – rubber gloves.
	- eye/face protection:	Safety glasses to the standard EN 166:2002.
	- heat radiation protection:	There are no thermic dangers.
	Other:	Wash soiled clothing and other protective equipment before storing or re-using.
8.2.3.	Environment exposure control:	To avoid risks for the environment, apply only according to the instructions.

9. Physical and chemical properties

9.1.	Information on basic physical and chemical properties:	
	- Physical state:	Water dispersible granules (WG or WDG)
	- color	Brown colour
	- odor:	Faint specific odour, sulphur-like.
	pH:	From 5,0 to 7,0 (1 % aqueous dispersions, 20°C).

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	Melting/freezing point:	119 °C (active substance)
	Boiling point or initial boiling point and boiling range	445 °C.
	Flash point:	207 °C
	Auto-ignition temperature:	Not applicable(inorganic salt)
	flammability (solid, gas):	250 °C (DIN 51794)-powder
	Lower and upper explosion limit:	Ignition temperature = > 420°C
	Vapor pressure:	9,8 x 10 ⁻⁵ Pa (20 °C)
	Density and/or relative density:	Not applicable(inorganic salt) 2,07 (sulphur, at 20°C)
	Solubility:	Dispersible.
	partition coefficient: n-octanol-water:	Active substance: Log Pow 5,68 (20 °C)
	Decomposition temperature:	No data.
	Kinematic viscosity:	Not applicable(inorganic salt)
	Relative vapour density:	Not applicable(inorganic salt)
9.2.	Other information:	<i>Informations for section 9 are from Agrostulln GmbH, Germany</i>
9.2.1	Information on physical hazard classes	
	-Explosives:	Not classified as explosive. High concentration of powder in air can increases risk for explosion
	- Flammable gases:	Not relevant
	- Aerosols:	Not relevant
	- Oxidising gases:	Not relevant
	- Flammable liquids:	Not relevant
	- Flammable solids:	Not relevant
	- Corrosive to metals:	Not relevant
9.2.2	Other safety-related parameters:	No data.
10. Stability and reactivity		
10.1.	Reactivity:	No data.
10.2.	Chemical stability:	The product is stable under normal conditions and in neutral media.
10.3.	Possible hazardous reactions:	Dust explosion possible.
10.4.	Conditions to avoid:	Avoid dust development. Keep away from open flames, sparks.
10.5.	Incompatible materials:	With chlorates, nitrates, perchlorates and permanganates, product forms explosive mixtures exceptionally susceptible to shock. Unstable in contact with strong oxidising agents, copper and copper oxides.
10.6.	Hazardous decomposition products:	Burning sulphur forms highly-toxic and irritant sulphur dioxide.
11. Toxicological data		
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	- Acute toxicity:	Oral: LD50 /rat/: > 5000 mg/kg Inhalation: LC50 /rat/: > 5,4 mg / L / 4h
	- Skin corrosion/irritation:	Dermal: LD50 /rat/: > 2000 mg/kg Skin irritation/rabbit: slightly-irritating

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	- Serious eye damage/irritation:	Eye irritation/rabbit: Non-irritant.
	- Respiratory or skin sensitisation:	None known.
	- Germ cell mutagenicity:	None known.
	- Carcinogenicity:	None known.
	- Toxicity for reproduction:	None known.
	- STOT – single exposure:	None known.
	- STOT – repeated exposure:	None known.
	- Aspiration hazard:	None known. <i>Informations for section 11 are from Agrostulln GmbH, Germany Reference to section 16.</i>
	- Endocrine disrupting properties	Endocrine disrupting properties Not classified.

12. Ecological information

12.1.	Toxicity:	solubility is very low). Acute to fish: Rainbow trout/LC50 (96 h): > 5000 mg/L Daphnia magna /EC/LC50 (48 h): > 1000 mg/L Algae/EC50 (72 h): >290 mg/L Acute risk assessment for sulfur: LD50 > 3500 mg / kg bw Toxicity to bees: the product is not toxic. At the highest doses LD50 > 100 µg active ingredient / bee. HQ is < 50. Toxicity to earthworms: not toxic. LC50 = > 2000 mg/kg dry soil Effects on non-target soil micro-organisms is not.
12.2.	Persistence and degradability:	Oxidation to sulphate which occurs naturally in soils and ground water (DT50 = 28 d).
12.3.	Bioaccumulative potential:	Sulfur accumulation in organisms is considered to be negligible (sulfur is a natural mineral and essential element in the metabolism of all living organisms).
12.4.	Mobility in soil:	Sulphur is not water-soluble and for this reason has low mobility in soils.
12.5.	Results of PBT and vPvB assessment:	No data.
12.6.	Endocrine disrupting properties:	ndocrine disrupting properties: Not classified
12.7.	Other adversative effects:	Do not flush into surface water or sanitary sewer system. <i>Informations for section 12 are from Agrostulln GmbH, Germany Reference to section 16.</i>

13. Disposal considerations

13.1.	Waste treatment methods:	Remain product should be stored in original, labeled packaging. See product label for disposal and recycling instructions. Dispose in accordance with applicable Federal, State and Local laws and regulations. Caution: Do not re-use empty containers!
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14. Transport information

	ADR, RID, AND, IMDG, ICAO-TI/IATA-DGR	Not classified as hazardous under transport regulations.
14.1.	UN number or ID number:	Not relevant
14.2.	UN proper shipping name:	Not relevant
14.3.	Transport hazard class(es):	Not relevant

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14.4.	Packaging group:	Not relevant
14.5.	Environmental hazards:	Not relevant
14.6.	Special precautions for user:	Not relevant
14.7.	Maritime transport in bulk according to IMO instruments:	Not relevant

15. Regulatory information

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture:	EEC Directives.
15.2.	Chemical safety assessment:	A chemical safety assessment for the substance is made.

16. Other information

	Amendments made in the revised edition:	Change of a hazards identification and ident number.
	List of relevant, hazard statements, safety phrases and/or precautionary statements. Write out the full text of any statement which are not written out in full under Sections 2 to 15:	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product.
	in the case of mixtures, an indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification:	Test results.
	Training of personnel:	A Course of safety, occupational health, fire safety and handling of chemicals.
	Key literature references and sources for data:	<i>Testing methodology used:</i> EEC/EU (Agrostulln, Germany) . EEC Directives.
	A key or legend to abbreviation and acronyms used in the safety data sheet:	CLP = Classification, Labelling and Packaging DT50 = Half life time of biodegradation in soil EC50 = Median Effective Concentration HQ = Hazard Quotients LD50 = Median Lethal Dose LC50 = Median lethal concentration PBT = Persistent, Bioaccumulative, Toxic PEC = Predicted Effect Concentration PNEC = Predicted No Effect Concentration STOT = Specific Target Organ Toxicity

Data specified above are based on research and experience of the supplier at the time of compiling the present MSDS. The supplier may not assume responsibility in case the buyer/user should fail to use the product in accordance with the relevant suggestions and recommendations. No information contained in the present SMDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.