SULFOLAC 85 SC Version 6.3/ 15.10.2024

agrðstulln

Safety Data Sheet according to Regulation 1907/2006/EC (REACH)

Date of issue:	12.09.2012		Last update: 15.10.2024 Version No.: 6.3			
Section 1	Identification of the substa	nce/mixture and of the company				
1.1	Product identifier Trade name: SULFOLAC 8	<u>5 SC</u>				
1.2	2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified use: Liquid Fertilizer					
1.3	Details of the supplier of the agrostulln GmbH Werksweg 2, D-92551 Stulle Ph.: +49 9435/3069-0; Fax: e-mail: info@agrostulln.de	n, Germany				
1.4		bers 1: +49 9435/3069-0 (8:00 – 16:00) cy Munich: +49 89 19240				
Section 2	Hazards identification					
2.1	-	the criteria for classification in any hazard class according to the second sec				
2.2	Label elements Pictogram Signal Words Hazard Statements Precautionary statements:	 none none P102 Keep out of reach of children. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye P362 Take off contaminated clothing P302+P352 IF ON SKIN: Wash with plenty of water. P501 Dispose of contents/container according to national statements. 				
2.3	 Other hazards The mixture itself or any substance contained in this mixture does not meet the criteria for vPvB and according to Regulation (EC) No 1907/2006, Annex XIII. The mixture itself or any substance contained in this mixture is not identified as having endocrine dimension encoder (EU) 2017 (2000. 					
	disrupting properties according to Regulation (EU) 2017/2100					
	Composition/information	on ingredients				
5.2	Description of the Active ingredient: Other components: Hazardous ingredients:	<u>mixture</u> : Sulfur, 58 % w/w Dispersing Agent, Preserving Agent, Surfa Sulfur	ctants, Water			

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	CAS No	EC No	Index No.	REACH Registration No.	% [weight]	Substance name	Classification acc. to Reg. (EC) 1278/2008 (CLP)	SCL, M- facto ATE	
	7704- 34-9	231- 722-6	016-094- 00-1	01- 2119487295- 27-XXXX	58	Sulfur	Skin Irrit.2 H315	none	
	For full text of H-statements, see SECTION 16.								
	There are no additional ingredients present in this mixture which, within the current knowledge of the supplier, are PBTs, vPvBs or Substances of equivalent concern, or nanoparticles, or have been assigned a workplace exposure limit and hence require reporting in this section.								
Section 4	First aid mo	easures							
4.1	Description	n of first a	aid measure	es					
	General information:			Remove contaminated, saturated clothing immediately. In case of acciden or unwellness, seek medical advice immediately (show directions for use of safety data sheet if possible).					
	Following in	nhalation	<u>:</u>	Provide fresh air. Seek medical assistance.					
	Following skin contact:			After contact with skin, wash with soap and plenty of water. In case of skin irritation, consult a physician.					
	Following eye contact:			Rinse immediately carefully and thoroughly with eye-bath or water, then consult an ophthalmologist immediately.					
	Following in	ngestion:		Drink water in little sips (dilution effect). Do not induce vomiting. Seek medical assistance immediately.					
	<u>Self-protec</u> aider	<u>tion of th</u>		No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.					
4.2	2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms:</u> Swallowing of the product can cause flatulence and diarrhoea.								
4.3	Indication of any immediate medical attention and special treatment needed <u>Specific treatment:</u> First aid, decontamination, treatment of symptoms. <u>Notes for the doctor:</u> Treat symptomatically.								
Section 5	Firefighting measures								
5.1	1 Extinguishing media Suitable extinguishing media: Water mist, foam, powder, water-spray, CO2 Unsuitable extinguishing media: Compact water jet (risk of steam explosion)								
5.2	Special hazards arising from the substance or mixture <u>Hazardous combustion products:</u> Burning material forms highly toxic and irritant sulfur dioxide. In case of fire and/or explosion do not inhale fumes!								
	Advice for	· · · · ·							

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No action shall be taken involving any personal risk or without suitable training.

<u>Protective clothing:</u> Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

For non-emergency personnel

Protective equipment: refer to section 8.2

Emergency procedures: Remove ignition sources, provide sufficient ventilation and control aerosol development.

For emergency responders

As above, no additional information.

6.2 Environmental precautions

Do not allow to enter into drains or sewer, soil or open water (streams, ponds etc.).

6.3 Methods and material for containment and cleaning up

Soak up spilt substance mechanically with binding material for liquids and collect in suitable, sealed containers.

6.4 Reference to other sections

Refer to section 8 for information to suitable personal protective equipment Refer to section 13 for more information to treatment of waste.

Section 7 Handling and storage

7.1 Precautions for safe handling

<u>Protective measures:</u> Avoid aerosol development. Provide fresh air. <u>Advice on general occupational hygiene</u>: Do not eat, drink and smoke in work areas; wash hands after use; and remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Technical mesasures and storage conditionsStore in a cool, dry place, protect from moisture and direct sunlight.Materials for packagingMoisture resistant material, no special requirements.Conditions for storage rooms and containersDo not store together with food, feedstuff, and beverage. Keep away from children.Further information related to storageStorage class: 10-13

7.3 Specific end use

The product is used as a liquid fertilizer with the common spraying equipment, according to good agricultural practice. Please refer to label for further information.

Section 8 Exposure Controls / Personal protection

8.1 Control parameters

Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring: none

8.2 Exposure controls

8.2.1 <u>Appropriate engineering controls:</u> Ensure adequate ventilation, especially in confined areas <u>Organisational measures to prevent exposure:</u>

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or

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smoke. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Wash hands before breaks and after work. Take off all contaminated clothing immediately. Do not breathe vapours or spray mist.

8.2.2 <u>Personal protective equipment:</u>

a) Eye/face protection

Use safety goggles with side protection. Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

b) Skin protection

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times.larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

- type of material

NBR (Nitrile rubber)

- material thickness

>0,11 mm

- breakthrough times of the glove material

>480 minutes (permeation: level 6)

Body Protection

Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

c) Respiratory protection

In case of development of fumes, or aerosol, wear protective particle filter mask (Filter type P2).

8.2.3 Environmental exposure control

Do not allow to enter into drains or sewers, soil or open water. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. To avoid risks for the environment, apply only according to label instructions.

Section 9 Physical and chemical properties

9.1	Information on basic physical and cher	nical properties	
a)	Physical state	viscous liquid	
•	Colour	yellowish	
b)	Odour	none	
c)	Odour threshold	not determined	
d)	Melting Point (sulfur)	119 °C	
e)	Boiling point (H ₂ O, 1013 hPa)	ca.100 °C	
f)	Flammability	not applicable	
g)	Upper/lower explosion limits	not applicable	
h)	Flash point of molten sulfur:	207 °C	
i)	Auto-ignition temperature	not applicable	
i)	Decomposition temperature	not applicable	

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k)	pH value (1% in H_2O at 20°	°C)	7.0 ± 0).5		
I)	Kinematic viscosity		1000 -	2000 mPas		
m)	Solubility		disper	sible in water (si	ulfur)	
n)	N-octanol water partition	coefficient	Log Pov	, 5.68 (20°C)		
	Vapour pressure (sulfur)		-	0-5 Pa (at 20°C)		
-	Density			plicable		
	Relative vapour density			olicable		
	Particle characteristics			e size distribution:		
•,				orms: none		
۵ ۵	Other information					
9.2			Net wiesiels		ataining ail	
	Miscibility		Not miscible	with products cor	ntaining oli	
Section 10	Stability and reactivity					
10.1	Reactivity When handled according t	o the instructions	s on the label,	the product is not	t reactive.	
10.2	Chemical stability The product is stable under section 7.2.	er appropriate sto	rage conditior	ns and ambient ter	mperature as indicated in	
10.3	Possibility of hazardous re When stored and handled chapter 7 for further inform	according to the	instructions, r	io hazardous reac	tions are to be expected. See	
	Conditions to avoid					
10.4		nt.				
	Avoid aerosol developmen	nt.				
		erchlorates and p hock.	_	-		
10.5	Avoid aerosol development Incompatible materials With chlorates, nitrates, pre- extremely susceptible to st	erchlorates and p hock. contact with stro products	ng oxidising a	-		
10.5	Avoid aerosol development Incompatible materials With chlorates, nitrates, prestremely susceptible to subtract is unstable in Hazardous decomposition	erchlorates and p hock. contact with stro products	ng oxidising a	-		
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	Active ingredient sulfur,	us iui us u					
	<u>M</u>	<u>ethod</u>	Species		Result/ Class	sification*	
	Acute toxicity						
	Oral Of	ECD 401	Rat		LD ₅₀ : > 2000	mg/kg *	
	Dermal Of	ECD 402	Rat		LD ₅₀ : > 2000	mg/kg *	
	Inhalation OI	ECD 403	Rat	4 h	LC ₅₀ : 5430 m max. attainable co range (1-4 µm)	g/m ³ * oncentration with a MMAD in the target	
	skin OECD 404 Rabbit 4 h Irritating (Skin Irrit.2, H315) corrosion/irritation						
	serious eye Ol	ECD 405	Rabbit	24 h	No eye irrita	tion*	
	damage/irritation respiratory or skin OECD 406 Guinea 25 d No skin sensitisation observed*						
	sensitisation * a), c), d): Based on ava	ilable data	Pig , the class	sification criteria ar	re not met		
11.2	Information on other h	azards					
11.2.1	Endocrine disrupting pro	operties					
	For this product, no end	ocrine disr	upting pr	operties were deriv	ved from applie	cation of the assessment	
	criteria laid down in the	correspon	ding Regu	lations ((EC) No 19	07/2006, (EU)	2017/2100, (EU) 2018/605),	
	that is relevant to assess	s endocrine	e disruptii	ng properties for h	uman health.		
11.2.2	Other information						
	Swallowing of the produ	ict can cau	se flatule	nce and diarrhoea.			
	No other relevant adver	se health e	effects hav	ve been reported.			
Section 12	Ecological information						
	Leological Information						
12.1	Toxicity Ecotoxicological data for the product are not available. The ecotoxicological properties of elemental sulfur are as follows:						
	are as follows:	r the produ	ict are no	t available. The ecc	otoxicological p	properties of elemental sulfu	
	-	Method			Exposure	properties of elemental sulfu	
	are as follows:	1	<u>Speci</u>	<u>es</u>		<u>Result</u>	
	are as follows: Acute aquatic Toxicity Fish	<u>Method</u>	<u>Speci</u> Onco	<u>es</u> rhynchus mykiss	<u>Exposure</u> time	<u>Result</u> LC ₅₀ > 4000 mg/l	
	are as follows: Acute aquatic Toxicity	Method OECD 20	<u>Speci</u> Onco 02 Daph	<u>es</u> rhynchus mykiss nia magna trodesmus	<u>Exposure</u> <u>time</u> 96 h	<u>Result</u>	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae	Method OECD 20 OECD 20	<u>Speci</u> Onco 02 Daph 01 Ankis	<u>es</u> rhynchus mykiss nia magna trodesmus	<u>Exposure</u> <u>time</u> 96 h 48 h	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l	
	are as follows: Acute aquatic Toxicity Fish Daphnia	Method OECD 20 OECD 20	<u>Speci</u> Onco 2 Daph 1 Ankis bibra	<u>es</u> rhynchus mykiss nia magna trodesmus ianus	<u>Exposure</u> <u>time</u> 96 h 48 h	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish	Method OECD 20 OECD 20 OECD 20	Speci Onco 2 Daph 1 Ankis bibra	<u>es</u> rhynchus mykiss nia magna trodesmus ianus rhynchus mykiss	<u>Exposure</u> <u>time</u> 96 h 48 h 72 h 28 d	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l LC ₅₀ > 80 mg/l	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish Daphnia	Method OECD 20 OECD 20 OECD 20 OECD 20	Speci Onco 2 Daph 1 Ankis bibra	<u>es</u> rhynchus mykiss nia magna trodesmus ianus	<u>Exposure</u> <u>time</u> 96 h 48 h 72 h	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish Daphnia Toxicity for other organ	Method OECD 20 OECD 20 OECD 20 OECD 20 isms	Speci Onco. 2 Daph 1 Ankis bibra. 04 Onco. 02 Daph	<u>es</u> rhynchus mykiss nia magna trodesmus ianus rhynchus mykiss nia magna	<u>Exposure</u> <u>time</u> 96 h 48 h 72 h 28 d 21 d	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l LC ₅₀ > 80 mg/l EC ₅₀ > 80 mg/l	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish Daphnia	Method OECD 20 OECD 20 OECD 20 OECD 20	Speci Onco Daph Ankis bibra O4 Onco D2 Daph Apis r	<u>es</u> rhynchus mykiss nia magna trodesmus ianus rhynchus mykiss	<u>Exposure</u> <u>time</u> 96 h 48 h 72 h 28 d	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l LC ₅₀ > 80 mg/l EC ₅₀ > 80 mg/l LD50 > 80 μg a.s./bee Not toxic	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish Daphnia Toxicity for other organ	Method OECD 20 OECD 20 OECD 20 OECD 20 OECD 20 isms Dose	Speci Onco. Daph Ankis bibra. Of Onco. Daph Apis r	<u>es</u> rhynchus mykiss nia magna trodesmus ianus rhynchus mykiss nia magna	<u>Exposure</u> <u>time</u> 96 h 48 h 72 h 28 d 21 d	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l LC ₅₀ > 80 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 80 μg a.s./bee	
	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish Daphnia Toxicity for other organ Toxicity to bees	Method OECD 20 OECD 20 OECD 20 OECD 20 isms Dose response OECD 20 mental haza	Speci Onco Daph 1 Ankis bibra 04 Onco 02 Daph Apis r e 07 Eisen ard effect	<u>es</u> rhynchus mykiss nia magna trodesmus ianus rhynchus mykiss nia magna mellifera ia fetida <u>s of the decompos</u>	Exposure time 96 h 48 h 72 h 28 d 21 d 24 h 14 d	Result LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l LC ₅₀ > 80 mg/l EC ₅₀ > 800 mg/l LC ₅₀ > 80 μg a.s./bee Not toxic LD50 > 1600 mg a.s./kg soil Not toxic	
12.2	are as follows: Acute aquatic Toxicity Fish Daphnia Algae Chronic aquatic toxicity Fish Daphnia Toxicity for other organ Toxicity to bees Toxicity to earthworms Information on environm	Method OECD 20 OECD 20 OECD 20 OECD 20 isms Dose response OECD 20 mental haza rous acid: 1 ability (ele nical elimin ciates in ar	Speci Onco Daph Ankis bibra O4 Onco D2 Daph Apis r C2 Daph Apis r C3 Eisen T4 Eisen T5 Eisen T5 Eisen T6 Eisen T6 Eisen T6 Eisen	es rhynchus mykiss nia magna trodesmus ianus rhynchus mykiss nia magna mellifera ia fetida <u>s of the decompos</u> nal for fish ulfur) nlight (DT50 = 3-4 S	Exposure <u>time</u> 96 h 48 h 72 h 28 d 21 d 24 h 14 d <u>ition products:</u>	<u>Result</u> LC ₅₀ > 4000 mg/l EC ₅₀ > 800 mg/l EC ₅₀ > 232 mg/l LC ₅₀ > 80 mg/l EC ₅₀ > 80 mg/l LD50 > 80 μg a.s./bee Not toxic LD50 > 1600 mg a.s./kg soil Not toxic	

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12	2.4 Mobility in soil (elemental sulfur) Sulfur is not water-soluble and for this reason has l	ow mobility in soils.					
12	2.5 Results of PBT and vPvB assessment This mixture does not contain any substances that	are assessed to be a PBT or a vPvB.					
12	2.6 Endocrine disrupting properties	Endocrine disrupting properties					
	This mixture does not have endocrine disrupting pr does not meet the criteria set out in section B of Re	operties with respect to non-target organisms as it egulation (EU) No 2017/2100."					
12	2.7 Other adverse effects						
	No known significant effects or critical hazards. Do system.	not discharge into surface water or sanitary sewer					
Section	Disposal considerations						
13	 8.1 Waste treatment methods To be disposed of in accordance with local regulations sewers. Combustion possible in suitable incineration European Waste Catalogue: EWC-Number 06 06 9 Waste description: wastes from the manufacture, chemical processes and desulfurisation processes, 	on plants (flue gas desulfurisation). 9 formulation, supply and use of sulfur chemicals, sulfur					
Section 14	Transport information						
	•						
14	Not classified as dangerous goods according to nat I.1 UN number	none					
	I.2 UN proper shipping name	not applicable					
	I.3 Transport hazard class(es)	none					
	I.4 Packing group	not applicable					
14	I.5 Environmental hazards	none					
14	I.6 Special precautions for user	avoid aerosol development					
14	I.7 Maritime transport in bulk according to IMO	Transport in bulk is not intended					
	instruments						
Continu 15	Desulaters information						
Section 15	5 7	alation analific for the substance or mirture					
15	5.1 Safety, health and environmental regulations/legi EU Regulations:	station specific for the substance of mixture					
	<u>Classification and labeling</u> :						
	Regulation 1272/2008/EC (CLP) and 1907/2006 (RE	ACH) in the current consolidated version					
	National regulations (Germany):						
	Chemikaliengesetz (ChemG)						
	Gefahrstoffverordnung (GefStoffV)						
	Düngemittelverordnung (DüMV of 5. Dezember 20	12, BGBI. I S. 2482)					
	Chemikalien-Verbotsverordnung (ChemVerbotsV)						
	Water hazard class: Class 1, slightly hazardous to w	aters (Self classification according AwSV of 18.04.2017)					
15	5.2 Chemical Safety Assessment:						
15	No Chemical Safety Assessment has been carried o	ut for this substance/mixture by the supplier					
Section 16							
	Indication of changes:	ntally according to Annov II of the PEACU regulation					
		ntally according to Annex II of the REACH regulation y 2015, and Commission Regulation (EU) 2020/878.					
	(1907) 2000) LC, and regulation 2013/030 01 20 Mid						

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ATE	=Actute Toxicity estimate
AwSV	= Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (German regulation for
	protection of waterbodies)
CAS	= Chemical Abstacts Service
CLP	= Classification. Labelling and Packaging
d	= days
DT50	= dissipation time (half life)
EINECS	= European Inventory of Existing Commercial Chemical Substances
EC	= Effect Concentration
EU	= European Union
g/l	= grams per litre
h	= hours
IMO	= International Maritime Organization
LD	= Lethal Dose
LC	= Lethal Concentration
MMAD	= Mass Median Aerodynamic Diameter
OECD	= Organisation for Economic Co-operation and Development
PBT	= Persistent, Bioaccumulative, Toxic
REACH	= Registration, Evaluation, and Authorisation of Chemicals
SCL	= Specific Concentration Limit
STOT	= Specific Target Organ Toxicity
UN	= United Nations
vPvB	= very Persistent and very Bioaccumulative
w/w	= Weight/weight
<u>Classific</u>	ation and procedure used to derive the classification for mixtures according to Regulation (EC
1272/20	08 [CLP]:
Classific	ation according to Regulation (EC) Nr. 1272/2008: none
	ation procedure: not applicable, as toxicological data on the mixture are available.
0.0000	
Relevan	t R-phrases and/or H-statements:
For the	mixture: no classification
For the	Ingredient Sulfur:
	ng to Regulation (EC) No. 1272/2008 (CLP):
	auses skin irritation

Further information:

The information contained in this document relates solely to the safety requirements of this product and is accurate to the best of our knowledge and belief at the date of publication. Nothing herein is to be construed as a warranty with the meaning of liability or guarantee provisions.

Data sheet compiled:

agrostulln GmbH