



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	23.04.2025	M0483	Date of first issue: 23.04.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

: NovaTec® Solub 4-0-40 BS Unique Formula Identifier : 3RQ5-V0J4-U00P-3VM6 (UFI)

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

Use of the Sub-	:	Fertiliser
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	:	COMPO EXPERT GmbH Krögerweg 10 D-48155 Münster
Telephone	:	+49 (0) 251 29 79 81 – 000
Telefax	:	+49 (0) 251 29 79 81 - 111
E-mail address of person responsible for the SDS	:	info@compo-expert.com

1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h Telephone:+49 (0) 6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)					
Skin irritation, Category 2	H315: Causes skin irritation.				
Serious eye damage, Category 1	H318: Causes serious eye damage.				

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Version 1.0	Revision Date: 23.04.2025		DS Number: 10483	Date of last issue: - Date of first issue: 23.04.2025
Signa	l word	:	Danger	
Hazard statements		:	H315 H318	Causes skin irritation. Causes serious eye damage.
Preca	utionary statements	:	Prevention P264 P280	: Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face pro- tection.
			P305 + P35 P332 + P31	 IF ON SKIN: Wash with plenty of water. + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

potassium hydrogensulphate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic fertiliser

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
potassium hydrogensulphate	7646-93-7	Skin Corr. 1B; H314	>= 3 - < 5
	231-594-1	Eye Dam. 1; H318	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



NovaTec® Solub 4-0-40 BS

Version 1.0	Revision Date: 23.04.2025	SDS Number: M0483	Date of last issue: - Date of first issue: 23.04.2025	
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For ex	xplanation of abbrevia	ations see section 16.		

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment.
If inhaled	:	If breathed in, move person into fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with plenty of water. Take off all contaminated clothing immediately. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing. Protect unharmed eye. Continue rinsing eyes during transport to hospital. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
4.2 Most important symptoms a	nd e	effects, both acute and delayed
Symptoms	:	Ingestion may provoke the following symptoms: Methaemoglobinemia
Risks	:	Causes skin irritation. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



VersionRevision Date:SDS Number:Date of last issue: -1.023.04.2025M0483Date of first issue: 2	
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SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water Dry chemical Water mist Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2) Foam Sand
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Thermal decomposition can lead to release of irritating gases and vapours. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	Nitrogen oxides (NOx) Carbon oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product itself does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, pre	otective equipment and emergency procedures
Personal precautions	 Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before re-use. Avoid breathing dust. For personal protection see section 8. For disposal considerations see section 13.

6.2 Environmental precautions

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Version	Revision Date: 23.04.2025	SDS Number:	Date of last issue: -
1.0		M0483	Date of first issue: 23.04.2025
			r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform norities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling :	Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from combustible material. Keep away from heat and sources of ignition. Smoking, eating and drinking should be prohibited in the ap- plication area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against : fire and explosion	The product is not flammable.
Hygiene measures :	Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Further information on stor- age conditions	:	Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture.
Advice on common storage	:	Keep away from combustible materials. Keep away from strong acids. Keep away from strong bases. Keep away from food, drink and animal feedingstuffs.
Further information on stor- age stability	:	Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s)	:	Not relevant
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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	23.04.2025	M0483	Date of first issue: 23.04.2025

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg
	Workers	Inhalation	Long-term systemic effects	11,167 mg/m3
	Consumer use	Oral	Long-term systemic effects	6,4 mg/kg
	Consumer use	Skin contact	Long-term systemic effects	12,8 mg/kg
	Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	Tightly fitting safety goggles	
Hand protection Material Directive	:	Gloves Equipment should conform to EN 374	
Remarks	:	As the product is a mixture of several substances, the dura- bility of the glove materials cannot be calculated in advance and has to be tested before use.	
Skin and body protection	:	Long sleeved clothing	
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter. Equipment should conform to EN 14387	
Filter type	:	Filter type P	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Version	Revision Date: 23.04.2025	SDS Number:	Date of last issue: -
1.0		M0483	Date of first issue: 23.04.2025
Protective measures		practice.	ordance with good industrial hygiene and safety nated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	green
Odour	:	none
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability	:	Will not burn
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	does not ignite
Decomposition temperature	:	> 130 °C To avoid thermal decomposition, do not overheat.
рН	:	ca. 2,5 (20 °C) Concentration: 100 g/l
Solubility(ies) Water solubility	:	soluble

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Ver 1.0	sion	Revision Date: 23.04.2025		S Number: 483	Date of last issue: - Date of first issue: 23.04.2025
	Partition coefficient: n- octanol/water		:	Not applicable	
	Densit	y	:	not determined	
	Bulk de	ensity	:	ca. 1.280 kg/m³	
	Particle characteristics Particle Size Distribution		:	D50 = 180 µm ± Measurement te	40 μm chnique: Sieve analysis
9.2	9.2 Other information				
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Self-ig	nition	:	not auto-flamma	ble

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	None reasonably foreseeable. Heating can release hazardous gases.
10.4 Conditions to avoid		

Conditions to avoid : Hot surface(s) Direct sources of heat.

10.5 Incompatible materials

Materials to avoid	: Strong bases	
	Organic materia	ls
	Strong acids	
	Powdered metal	S

10.6 Hazardous decomposition products

Hazardous decomposition : Sulphur oxides

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



ersion .0	Revision Date: 23.04.2025		OS Number: 0483	Date of last issue: - Date of first issue: 23.04.2025
produ	icts		Oxides of pho Nitrogen oxid	
ECTION	11: Toxicological	l infor	mation	
1.1 Infor	mation on hazard cla	asses	as defined in F	Regulation (EC) No 1272/2008
	e toxicity lassified due to lack o	f data.		
Com	oonents:			
potas	sium hydrogensulp	hate:		
Acute	oral toxicity	:	Assessment:	The substance or mixture has no acute oral tox-
Acute	inhalation toxicity	:	Assessment: Tion toxicity	The substance or mixture has no acute inhala-
Acute	e dermal toxicity	:	Assessment: ⁻ toxicity	The substance or mixture has no acute dermal
-	corrosion/irritation			
	es skin irritation.			
Com	oonents:			
-	ssium hydrogensulp	hate:		
Speci Asses	es ssment	:	Rabbit Causes sever	e burns
Metho		:	OECD Test G	
GLP		:	no	
Serio	us eye damage/eye	irritati	on	
	es serious eye damag			

Components:

potassium hydrogensulphate:

Species	:	Rabbit
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Vers 1.0	sion	Revision Date: 23.04.2025		DS Number: 0483	Date of last issue: - Date of first issue: 23.04.2025
	Comp	onents:			
	potass	sium hydrogensulpha	te:		
	Assess		:	Does not cause s	kin sensitisation.
	Assess	sment	:	Does not cause re	espiratory sensitisation.
		cell mutagenicity ssified due to lack of d	ata.		
	Comp	onents:			
	-	sium hydrogensulpha cell mutagenicity- As- ent	ite: :	Weight of evidend cell mutagen.	ce does not support classification as a germ
		ogenicity ssified due to lack of d	ata.		
	Comp	onents:			
	potass	sium hydrogensulpha	te:		
	Carcine ment	ogenicity - Assess-	:	Not classifiable as	s a human carcinogen.
	-	ductive toxicity ssified due to lack of d	ata.		
	<u>Comp</u>	onents:			
	-	sium hydrogensulpha ductive toxicity - As- ent		No toxicity to repr	oduction
				No effects on or v	ria lactation
		- single exposure ssified due to lack of d	ata.		
	Comp	onents:			
	potass Assess	s ium hydrogensulpha sment	ite: :	May cause respir	atory irritation.
		 repeated exposure ssified due to lack of d 	ata.		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Version 1.0	Revision Date: 23.04.2025	SDS Number: M0483	Date of last issue: - Date of first issue: 23.04.2025
Com	ponents:		
potas	ssium hydrogensulp	hate:	
Asse	ssment		e or mixture is not classified as specific target , repeated exposure.
Aspii	ration toxicity		
Not c	lassified due to lack o	of data.	

Components:

potassium hydrogensulphate:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

potassium hydrogensulphate:

Partition coefficient: n- : Remarks: Not applicable octanol/water

1

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Version 1.0	Revision Date: 23.04.2025	SDS Number: M0483	Date of last issue: - Date of first issue: 23.04.2025
		0.1% or hig	her.
<u>Com</u>	ponents:		
potas	ssium hydrogensulph	ate:	
	ssment	: Substance	is not persistent, bioaccumulative, and toxic (PBT). is not very persistent and very bioaccumulative
12.6 Endo	ocrine disrupting prop	perties	
Prod	uct:		
	ssment	ered to hav REACH Art (EU) 2017/	nce/mixture does not contain components consid- e endocrine disrupting properties according to icle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
	r adverse effects ata available		
SECTION	N 13: Disposal cons	iderations	
13.1 Wast	te treatment methods		
Produ	uct	Dispose of Waste code	n into surface water or sanitary sewer system. in accordance with local regulations. es should be assigned by the user based on the for which the product was used.
Conta	aminated packaging	Empty cont dling site fo	aining contents. ainers should be taken to an approved waste han- r recycling or disposal. ainers retain residue and can be dangerous.

SECTION 14: Transport information

14.1 UN number or ID number		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

NovaTec® Solub 4-0-40 BS



Version 1.0	Revision Date: 23.04.2025	SDS Number M0483	Date of last issue: - Date of first issue: 23.04.2025
RID		· Not regula	ted as a dangerous good
		-	
IMDG		-	ted as a dangerous good
IATA	_	-	ted as a dangerous good
14.3 Trans	sport hazard class(e	5)	
ADR		: Not regula	ted as a dangerous good
RID		: Not regula	ted as a dangerous good
IMDG	i	: Not regula	ted as a dangerous good
IATA	_P	: Not regula	ted as a dangerous good
14.4 Pack	ing group		
ADR		: Not regula	ted as a dangerous good
RID		: Not regula	ted as a dangerous good
IMDG	i	: Not regula	ted as a dangerous good
ΙΑΤΑ	(Cargo)	: Not regula	ted as a dangerous good
IATA	_P (Passenger)	: Not regula	ted as a dangerous good
14.5 Envir	onmental hazards		
Not re	egulated as a dangero	us good	
•	ial precautions for u	ser	
14.7 Marit	ime transport in bull	according to IN	10 instruments
Regu Rema	latory basis arks	: IMSBC Co : Product is	ode not allowed to be transported in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislat ture	tior	n specific for the substance or mix-
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
REACH - List of substances subject to authorisation	:	Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Version 1.0	Revision Date: 23.04.2025	SDS Number: M0483	Date of last issue: - Date of first issue: 23.04.2025	
(Anne	əx XIV)			
pean contro	so III: Directive 2012/ Parliament and of the ol of major-accident h erous substances.	e Council on the	Not applicable	
15.2 Cher	nical safety assessr	nent		
Not releva	int			
SECTION	N 16: Other inform	ation		
Full t	ext of H-Statements	5		
H314		: Causes severe	e skin burns and eye damage.	
H318		: Causes seriou	s eye damage.	

H318	:	Causes serious eye damage.
H335	:	May cause respiratory irritation.

Full text of other abbreviations

		Serious eye damage
Skin Corr.	:	Skin corrosion
STOT SE	:	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response: GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-



NovaTec® Solub 4-0-40 BS

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	23.04.2025	M0483	Date of first issue: 23.04.2025

striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information					
Classification of the	e mixture:	Classification procedure:			
Skin Irrit. 2	H315	Calculation method			
Eye Dam. 1	H318	Calculation method			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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