according to Regulation (EC) No. 1907/2006

NovaTec® Solub 4-0-40 BS



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

1.1 Product identifier

Trade name : NovaTec® Solub 4-0-40 BS

UFI : 3RQ5-V0J4-U00P-3VM6

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

Use of the : Fertilizer

Substance/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 corrosion/irritation, Category 2 H315: Causes skin irritation.

Serious eye damage/eye irritation, H318: Causes serious eye damage.

Category 1

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements : P102 Keep out of reach of children.

Prevention:

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this

product.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER or

doctor/ physician.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture of nutrient salts based on various inorganic salts.

Hazardous components

Chemical Name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Registration number		(** ,
potassium hydrogensulphate	7646-93-7	Skin Corr. 1B; H314 STOT SE 3; H335	>= 3 - < 5
	231-594-1		

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> 424-640-9 Repr. 2; H361fd STOT RE 2; H373

01-0000017109-71-

0002

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : If breathed in, move person into fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Pain

Lachrymation

Risks : corrosive effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Symptoms of poisoning may not appear for several hours.

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Foam

Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during : Fire may cause evolution of:

firefighting Nitrogen oxides (NOx)

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5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Do not empty into drains.

Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Protect from contamination.

Keep away from direct sunlight.

Protect against heat. Protect from moisture.

Advice on protection against

fire and explosion

: The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.

Hygiene measures : At the end of the shift the skin should be cleaned and skin-

care agents applied. Wash hands before breaks and at the

end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep away from heat. Keep away from sources of ignition -No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic

and tends to cake or disintegrate)

: Keep away from combustible materials. Advice on common storage

according to Regulation (EC) No. 1907/2006

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Storage class (TRGS 510) : 13, Non Combustible Solids

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Eye protection : Avoid contact with eyes.

Safety glasses

Hand protection

Remarks : Protective gloves The choice of an appropriate glove does

not only depend on its material but also on other quality features and is different from one producer to the other.

Respiratory protection : Particle filtering disposable mask DIN EN 149 with filter FFP2.

Environmental exposure controls

General advice : Do not empty into drains.

Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : crystalline

Colour : green

Odour : odourless

Odour Threshold : No data available

according to Regulation (EC) No. 1907/2006

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pH : ca. 2,2, Concentration: 100 g/l (20 °C)

Melting point/range : ca. 400 °C

Boiling point/boiling range : Not applicable

Flash point : not determined

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Bulk density : ca. 1,28 kg/m³

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : Stable at normal ambient temperature and pressure.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not considered an oxidizing substance

Particle characteristics

Particle Size Distribution : $D50 = 180 \mu m$

D50 Tolerance range = 144 μm - 216 μm Measurement technique: Sieve analysis

according to Regulation (EC) No. 1907/2006

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Keep away from direct sunlight.

Keep away from heat and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Acids

Bases

Organic materials Reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Components:

potassium hydrogensulphate:

Acute oral toxicity : LD50 Oral (Rat): 2.340 mg/kg

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Acute oral toxicity : LD50 (Rat): 200 - 2.000 mg/kg

Method: Tested according to Directive 92/69/EEC.

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Acute inhalation toxicity : LC50 (Rat): > 5,5 mg/l

Method: OECD Test Guideline 403

Remarks: calculated

according to Regulation (EC) No. 1907/2006

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Skin corrosion/irritation

Product:

Result: Causes skin irritation.

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

Serious eye damage/eye irritation

Product:

Result: Causes serious eye damage.

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

germ cell mutagenicity

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Germ cell mutagenicity- : Animal experiments showed mutagenic and teratogenic

Assessment effects.

Carcinogenicity

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

according to Regulation (EC) No. 1907/2006

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Carcinogenicity - : Did not show carcinogenic effects in animal experiments.

Assessment

Reproductive toxicity

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Reproductive toxicity - : In animal testing, risk of impaired fertility was shown only after

Assessment administration of very high doses of this substance.

May damage fertility. Suspected of damaging the unborn

child.

Repeated dose toxicity

Product:

Remarks: Based on available data, the classification criteria are not met.

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Remarks: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Further information

Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

SECTION 12: Ecological information

12.1 Toxicity

Components:

potassium hydrogensulphate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 3.500 mg/l

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

according to Regulation (EC) No. 1907/2006

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Toxicity to fish : (zebra fish): > 100 mg/l

Exposure time: 96 h Test Type: LC50

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to bacteria

Remarks: Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated

sludge.

Toxicity to fish (Chronic

toxicity)

: NOEC: > 8,7 mg/l Species: other

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

: NOEC: > 25 mg/l

Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Biodegradability : Remarks: Inherently biodegradable.

According to the results of tests of biodegradability this

product is not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

4).

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Bioaccumulation : Species: Pimephales sp.

Exposure time: 14 d

Bioconcentration factor (BCF): 1,2

Method: Bioaccumulation: Flow-through Fish Test.

Remarks: Does not significantly accumulate in organisms. The product was not tested. The statement was derived from

products of similar structure and composition.

according to Regulation (EC) No. 1907/2006

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12.4 Mobility in soil

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Distribution among : Remarks: Because of the water solubility, part of the product

environmental compartments will dissolve.

12.5 Results of PBT and vPvB assessment

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Assessment : This mixture contains no substance considered to be

persistent, bioaccumulating and toxic (PBT)..

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological : Fertilizer

information May contribute to eutrophication in static waters, therefore

should not be released into surface waters.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Check if agriculture use is possible.

Contact manufacturer.

Contaminated packaging : Contaminated packaging should be emptied as far as

possible; then it can be passed on for recycling after being

thoroughly cleaned.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Segregation group : : (-)

according to Regulation (EC) No. 1907/2006

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Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High : Not listed

Concern for Authorisation (Article 59).

(Germany)

Water contaminating class : WGK 3 highly water endangering

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

: Causes severe skin burns and eye damage. H314

: Causes serious eye irritation. H319 H335 : May cause respiratory irritation.

H361fd : Suspected of damaging fertility. Suspected of damaging the

unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure.

Full text of other abbreviations

Acute Tox. : Acute toxicity Eye Irrit. : Eye irritation

Repr. : Reproductive toxicity Skin Corr. : Skin corrosion

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling

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Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS -Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory: CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

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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