according to Regulation (EC) No. 1907/2006

NovaTec® 18 Fluid



Version: 3.5 Revision Date:
Date of last issue: 23.12.2022 06.04.2023

Date of first issue: 24.03.2016

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

1.1 Product identifier

Trade name : NovaTec® 18 Fluid

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)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture

according to Regulation (EC) No.

1272/2008.

Supplemental Hazard

Statements

: EUH210

Safety data sheet available on request.

Further information : German "Hazardous Substances" legislation (

Gefahrstoffverordnung) appendix I, No. 5 (Ammonium

Nitrate group D III)

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2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Liquid mixture of organic and inorganic salts of fertilzers.

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

Hazardous components

CAS-No. FC-No	Classification	Concentration (% w/w)
Registration number		(/0 11/11)
6484-52-2	Ox. Sol. 3; H272 Eve Irrit. 2: H319	>= 50 - <= 55
229-347-8		
01-2119490981-27-		
XXXX		
	EC-No. Registration number 6484-52-2 229-347-8 01-2119490981-27-	EC-No. Registration number 6484-52-2

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : On inhalation of decomposition products:

In case of lung irritation, first treatment with dexametason

aerosol (spray).

Keep patient calm, remove to fresh air, seek medical

attention.

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

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

and consult a physician.

If symptoms persist, seek medical advice.

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing : Dry powder media : Sand

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: In case of combustion evolution of dangerous gases possible.

At temperatures above 130 $^{\circ}\text{C},$ dangerous decomposition

gases can be emitted:

Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide,

ammonia

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

Further information : Cool endangered containers with water-spray.

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 : Ensure adequate ventilation.

Avoid contact with skin and eyes.

In case of involuntary exposition of the product contact

producer or supplier.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Rinse with water.

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6.4 Reference to other sections

none

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep away from heat.

Keep away from direct sunlight.

Do not allow to dry.

Advice on protection against

fire and explosion

: The product is not flammable. Risk of explosion if heated under confinement. Keep away from combustible materials.

Hygiene measures : Hands and/or face should be washed before breaks and at the

end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. When using do not eat,

drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Do not allow to dry. Keep away from direct sunlight. Keep

away from heat.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage

temperature

: 5 - 35 °C

7.3 Specific end use(s)

Specific use(s) : Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3
	Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day

according to Regulation (EC) No. 1907/2006

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Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3
Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
ammonium nitrate	Sewage treatment plant	18 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles (splash goggles) (EN 166)

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Chemical resistant protective gloves (EN 374). Suitable

materials also with prolonged, direct contact

(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : product specific

according to Regulation (EC) No. 1907/2006

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Odour : characteristic

Odour Threshold : No data available

pH : ca. 3 - 5, (20 °C)

crystallization temperature : ca. -5 °C

Boiling range : ca. 110 °C

Flash point : Not applicable

Evaporation rate : No data available

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

Upper explosion limit : Not explosive

Lower explosion limit : Not explosive

Vapour pressure : No data available

Relative vapour density : No data available

Density : ca. 1,25 g/cm³ (20 °C)

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : ca. 130 °C

To avoid thermal decomposition, do not overheat. Thermal decomposition above the indicated temperature is possible.

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Not considered an oxidizing substance

according to Regulation (EC) No. 1907/2006

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9.2 Other information

Surface tension : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or

alkaline reacting substances, flammable oxidizable

substances, nitrites, metallic salts, metallic powder, herbicide,

chlorinated hydrocarbons, organic compounds.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as:

Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide,

ammonia

SECTION 11: Toxicological information

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

Acute toxicity

Product:

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

Components:

ammonium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg

Method: OECD Test Guideline 401

according to Regulation (EC) No. 1907/2006

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Acute inhalation toxicity : > 88,8 mg/l

Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks: Prolonged contact with the product can result in skin irritation.

Components:

ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

Serious eye damage/eye irritation

Product:

Remarks: Contact with eyes may cause irritation.

Components:

ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

ammonium nitrate:

Result: Does not cause skin sensitisation.

germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Contains no hazardous ingredients according to

GHS

according to Regulation (EC) No. 1907/2006

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Components:

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Components:

ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Effects on fertility

Remarks: Contains no ingredient listed as toxic to

: Remarks: Contains no ingredient listed as toxic to

reproduction

Effects on foetal

development reproduction

Components:

ammonium nitrate:

Effects on fertility : Species: Rat

Remarks: Animal testing did not show any effects on fertility.

Effects on foetal : Species: Rat

development Remarks: Did not show teratogenic effects in animal

experiments.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

according to Regulation (EC) No. 1907/2006

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Repeated dose toxicity

Components:

ammonium nitrate:

Species: Rat

NOAEL: > 1.500 mg/kg Application Route: Oral Exposure time: 28 d

Species: Rat

NOAEL: = 256 mg/kg Application Route: Oral Exposure time: 52 w

Method: OECD Test Guideline 453

Species: Rat

NOAEL: >= 185 mg/kg

Application Route: by inhalation

Exposure time: 2 w

Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Experience with human exposure

Product:

General Information : If swallowed danger of methemoglobin formation.

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : (Cyprinus carpio (Carp)): 422 mg/l

Exposure time: 48 h Test Type: LC50

according to Regulation (EC) No. 1907/2006

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Toxicity to algae : No observed effect concentration (Desmodesmus subspicatus

> (green algae)): 83 mg/l Exposure time: 168 h

Components:

ammonium nitrate:

: LC50 (Fish): > 100 mg/l Toxicity to fish

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 490 mg/l

Exposure time: 48 h

LC50: 490 mg/l

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l

Exposure time: 10 d

12.2 Persistence and degradability

Components:

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Accumulation in organisms is expected.

Components:

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -3,1

12.4 Mobility in soil

Product:

Mobility : Remarks: Groundwater contamination is unlikely.

12.5 Results of PBT and vPvB assessment

Product:

: Remarks: Not applicable Assessment

according to Regulation (EC) No. 1907/2006

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12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological

information

: Do not flush into surface water or sanitary sewer system.

Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Fertilizer

Check if agriculture use is possible.

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

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

Remarks : Not relevant

SECTION 15: Regulatory information

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

according to Regulation (EC) No. 1907/2006

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Water contaminating class

(Germany)

: WGK 1 slightly water endangering

Other regulations : TRGS 511 'Ammonium nitrate'

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts must be reported to the relevant national contact

point.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer. H319 : Causes serious eye irritation.

Full text of other abbreviations

Eye Irrit. : Eye irritation Ox. Sol. : Oxidizing solids

(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 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

according to Regulation (EC) No. 1907/2006

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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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