

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

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

1.1 Product identifier

Trade name : EasyStart® TE-Max 11-48-0 BS

Unique Formula Identifier (UFI) : UH2C-70CQ-900A-F2US

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

Use of the Sub-stance/Mixture : Fertiliser

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)

Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H360FD

May damage fertility. May damage the unborn child.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

disodium tetraborate pentahydrate

Additional Labelling

Restricted to professional users.

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.

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic fertiliser

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Ferrous sulfate monohydrate	17375-41-6 231-753-5 026-003-00-7 01-2119513203-57-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 300,03 mg/kg	$\geq 1 - < 10$
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32-XXXX	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 1 - < 2,5$
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-0050	Ox. Sol. 3; H272 Eye Irrit. 2; H319	$\geq 1 - < 10$
disodium tetraborate pentahydrate	12179-04-3 215-540-4 005-011-02-9 01-2119490790-32-XXXX	Eye Irrit. 2; H319 Repr. 1B; H360FD	$\geq 0,3 - < 1$

For explanation of abbreviations 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.

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

- | | | |
|-------------------------|---|--|
| 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 eye irritation persists, consult a specialist. |
| If swallowed | : | Clean mouth with water and drink afterwards plenty of water.
Obtain medical attention. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|----------|---|---|
| Symptoms | : | Ingestion may provoke the following symptoms:
Methaemoglobinemia |
| Risks | : | May damage fertility. May damage the unborn child. |

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
Dry chemical
Water mist
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | High volume water jet
Carbon dioxide (CO ₂)
Foam
Sand |

5.2 Special hazards arising from the 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 products | : | Nitrogen oxides (NO _x)
Carbon monoxide
Carbon oxides
Oxides of phosphorus
Sulphur oxides |

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 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, protective 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

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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 application area. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed. The product should only be used in areas from which all naked lights and other sources of ignition have been

SAFETY DATA SHEET

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



EasyStart® TE-Max 11-48-0 BS

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

excluded. Electrical equipment should be protected to the appropriate standard.

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.

Dust explosion class : No data available

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture. Protect from contamination.

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 storage stability : Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ferrous sulfate monohydrate	17375-41-6	OELV - 8 hrs (TWA)	1 mg/m ³ (Iron)	IE OEL
		OELV - 15 min (STEL)	2 mg/m ³ (Iron)	IE OEL
zinc oxide	1314-13-2	OELV - 8 hrs (TWA) (fume, respirable)	2 mg/m ³	IE OEL
		OELV - 15 min (STEL) (Fumes)	10 mg/m ³	IE OEL
disodium tetraborate pentahydrate	12179-04-3	OELV - 8 hrs (TWA)	2 mg/m ³	IE OEL
Further information: Repr 1B - Substances which are presumed human reproductive toxicants				

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

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version 1.0 Revision Date: 12.01.2025 SDS Number: M0265 Date of last issue: -
Date of first issue: 12.01.2025

Substance name	End Use	Exposure routes	Potential health effects	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
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
	Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3
	Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
disodium tetraborate pentahydrate	Workers	Inhalation	Long-term local effects	17,04 mg/m3
	Workers	Inhalation	Acute local effects	17,04 mg/m3
	Workers	Inhalation	Long-term systemic effects	9,8 mg/m3
	Consumers	Oral	Acute systemic effects	1,15 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	3,4 mg/m3
	Consumers	Oral	Long-term systemic effects	1,15 mg/m3
	Consumers	Inhalation	Long-term systemic effects	4,9 mg/m3
	Consumers	Inhalation	Long-term systemic effects	4,9 mg/m3

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
ammonium nitrate	Fresh water	0,063 mg/kg
	Sewage treatment plant	18 mg/l
disodium tetraborate pentahydrate	Fresh water	2,9 mg/l
	Marine water	2,9 mg/l
	Soil	5,7 mg/l
	Sewage treatment plant	10 mg/l

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166
Hand protection	:	
Material	:	Gloves
Directive	:	Equipment should conform to EN 374
Remarks	:	As the product is a mixture of several substances, the durability 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
Protective measures	:	Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	beige
Odour	:	very faint
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability	:	Will not burn
Upper explosion limit / Upper flammability limit	:	Not applicable

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : > 130 °C

pH : 4,5 - 5,5 (20 °C)
Concentration: 100 g/l

Solubility(ies)
Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Bulk density : 780 - 980 kg/m³

Particle characteristics
Particle Size Distribution : D50 = 0,9 mm ± 0,3 mm
Measurement technique: Optoelectronic measurement method

9.2 Other information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : not auto-flammable

Minimum explosible dust concentration : No data available

Dust explosion class : No data available

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

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 materials
Powdered metals

10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NO_x)
Oxides of phosphorus
Sulphur oxides
ammonia

SECTION 11: Toxicological information

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

Acute toxicity

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

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Ferrous sulfate monohydrate:

Acute oral toxicity : LD50: > 300 - < 2.000 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version 1.0	Revision Date: 12.01.2025	SDS Number: M0265	Date of last issue: - Date of first issue: 12.01.2025
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toxicity

zinc oxide:

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity

ammonium nitrate:

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity

disodium tetraborate pentahydrate:

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

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

Components:

Ferrous sulfate monohydrate:

Assessment	:	Irritating to skin.
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zinc oxide:

Assessment	:	No skin irritation
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ammonium nitrate:

Assessment	:	No skin irritation
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disodium tetraborate pentahydrate:

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

Assessment : No skin irritation

Serious eye damage/eye irritation

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

Components:

Ferrous sulfate monohydrate:

Assessment : Irritating to eyes.

zinc oxide:

Assessment : No eye irritation

ammonium nitrate:

Species : Rabbit
Exposure time : 24 h
Assessment : Irritating to eyes.
Method : OECD Test Guideline 405

disodium tetraborate pentahydrate:

Species : Rabbit
Result : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Components:

Ferrous sulfate monohydrate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

zinc oxide:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

ammonium nitrate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

disodium tetraborate pentahydrate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

Germ cell mutagenicity

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

Components:

Ferrous sulfate monohydrate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

zinc oxide:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

disodium tetraborate pentahydrate:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects
Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

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

Components:

Ferrous sulfate monohydrate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

zinc oxide:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

SAFETY DATA SHEET

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



EasyStart® TE-Max 11-48-0 BS

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

ammonium nitrate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

disodium tetraborate pentahydrate:

Remarks : Animal testing did not show any carcinogenic effects.
Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

May damage fertility. May damage the unborn child.

Components:

Ferrous sulfate monohydrate:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

zinc oxide:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

ammonium nitrate:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

disodium tetraborate pentahydrate:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Result: Embryotoxic effects and adverse effects on the offspring were detected.
Remarks: Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

No effects on or via lactation

STOT - single exposure

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

Components:

Ferrous sulfate monohydrate:

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

zinc oxide:

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

ammonium nitrate:

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

disodium tetraborate pentahydrate:

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

STOT - repeated exposure

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

Components:

Ferrous sulfate monohydrate:

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

zinc oxide:

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

ammonium nitrate:

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

disodium tetraborate pentahydrate:

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

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

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	:	inhalation (dust/mist/fume)
Exposure time	:	2 w
Method	:	OECD Test Guideline 412

Aspiration toxicity

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

Components:

Ferrous sulfate monohydrate:

No aspiration toxicity classification

zinc oxide:

No aspiration toxicity classification

ammonium nitrate:

No aspiration toxicity classification

disodium tetraborate pentahydrate:

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.

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
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SECTION 12: Ecological information

12.1 Toxicity

Components:

zinc oxide:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

ammonium nitrate:

Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 490 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (diatoms): 1.700 mg/l
plants Exposure time: 10 h

Toxicity to microorganisms : EC50 (activated sludge): 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

disodium tetraborate pentahydrate:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 79,7 mg/l
Test Type: LC50

Toxicity to daphnia and other : LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l
aquatic invertebrates

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 52,4
plants mg/l

Toxicity to fish (Chronic tox- : NOEC: 6,4 mg/l
icity) Species: Danio rerio (zebra fish)

Toxicity to daphnia and other : NOEC: 14,2 mg/l
aquatic invertebrates (Chron- Species: Daphnia magna (Water flea)
ic toxicity)

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

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

Components:

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -3,1

disodium tetraborate pentahydrate:

Partition coefficient: n-octanol/water : log Pow: -1,53 (22 °C)

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 0.1% or higher.

Components:

zinc oxide:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

disodium tetraborate pentahydrate:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

12.6 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.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging	: Empty remaining contents. Empty containers retain residue and can be dangerous. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA_P	: Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good

SAFETY DATA SHEET

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



EasyStart® TE-Max 11-48-0 BS

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

IATA_P : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA_P (Passenger) : 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

Regulatory basis : IMSBC Code

MHB : no

IMSBC Group : C

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: disodium tetraborate pentahydrate (Number on list 30)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : disodium tetraborate pentahydrate

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. ammonium nitrate (ANNEX I)

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

Full text of H-Statements

H272	: May intensify fire; oxidizer.
H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H360FD	: May damage fertility. May damage the unborn child.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Ox. Sol.	: Oxidizing solids
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
IE OEL	: Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2
IE OEL / OELV - 8 hrs (TWA)	: Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL)	: Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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

SAFETY DATA SHEET

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

EasyStart® TE-Max 11-48-0 BS



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.01.2025	M0265	Date of first issue: 12.01.2025

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 Restriction 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 mixture:

Repr. 1B	H360FD
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
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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