

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



Q-48

Version: 1.5
Date of last issue: 23.12.2022
Date of first issue: 29.03.2018

Revision Date:
07.04.2023

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

1.1 Product identifier

Trade name : Q-48

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

Use of the Substance/Mixture : Fertilizer

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)

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

Precautionary statements : P102 Keep out of reach of children.
Prevention:
P270 Do not eat, drink or smoke when using this product.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

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3.2 Mixtures

Chemical nature : Iron chelate (EDDHA)

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
[EDDHA.Fe] Na	84539-55-9 283-044-5 01-2119487279-21-0002		<= 4

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off immediately all contaminated clothing.
Wash contaminated clothing before re-use.
- If inhaled : Fresh air.
Warmth.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash thoroughly 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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water
Carbon dioxide (CO₂)
Foam
Dry powder
The product is not flammable.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : No particular hazards known.

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 : 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.
Ensure adequate ventilation.
Use personal protective equipment.
In case of involuntary exposition of the product contact producer or supplier.

6.2 Environmental precautions

Environmental precautions : Do not empty into drains.
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 : Use mechanical handling equipment.
Sweep up or vacuum up spillage and collect in suitable

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container for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid dust formation.
Avoid inhalation, ingestion and contact with skin and eyes.
Keep only in the original container.
Avoid the formation and deposition of dust.
- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Do not breathe dust. Do not breathe fumes. Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
- Further information on storage conditions : Protect against water. Protect from moisture.
- Storage class (TRGS 510) : 13, Non Combustible Solids

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

Obey general dustlimit.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
[EDDHA.Fe] Na	Workers	Skin contact		0,8 mg/kg
	Workers	Inhalation		1,8 mg/m ³

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	Consumers	Eye contact		0,417 mg/kg
	Consumers	Inhalation		0,435 mg/m ³
	Consumers	Ingestion		0,125 mg/kg

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

Substance name	Environmental Compartment	Value
[EDDHA.Fe] Na	Water	2,4 mg/l
	Marine water	0,24 mg/l
	Intermittent use/release	1,2 mg/l
	Fresh water sediment	1,9 mg/kg
	Marine sediment	0,19 mg/kg
	Soil	1,6 mg/kg
	Behaviour in waste water treatment plants	45 mg/l

8.2 Exposure controls

Engineering measures

Ensure thorough ventilation of stores and work areas.

Take precautionary measures against static discharges.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Remarks : Chemical resistant protective gloves (EN 374).

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

respiratory protection only if aerosol or dust is formed.

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Half mask with a particle filter P2 (EN 143)

Protective measures : Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

General advice : Do not empty into drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : crystalline

Colour : brown

Odour : characteristic

pH : 7,5 - 9,5, Concentration: 10 g/l (20 °C)

Melting point/range : > 200 °C
Decomposes before melting.

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Flammability (solid, gas) : does not ignite

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : Not applicable

Bulk density : ca. 450 - 650 g/cm³

Solubility(ies)

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Water solubility	: 120 g/l soluble
Partition coefficient: n-octanol/water	: log Pow: < -4,2
Decomposition temperature	: No decomposition if stored and applied as directed.
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

9.2 Other information

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 : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)

SECTION 11: Toxicological information

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

Acute toxicity

Components:

[EDDHA.Fe] Na:

- Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: Acute Oral Toxicity.
- Acute inhalation toxicity : LC50 (Rat): 4,2 mg/l
Method: Acute Inhalation Toxicity
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Components:

[EDDHA.Fe] Na:

Species: Rabbit
Method: Acute Dermal Irritation/Corrosion.
Result: No skin irritation

Serious eye damage/eye irritation

Components:

[EDDHA.Fe] Na:

Species: Rabbit
Method: Acute Eye Irritation/Corrosion.
Result: No eye irritation

Respiratory or skin sensitisation

Components:

[EDDHA.Fe] Na:

Test Type: Mouse Local Lymph Node Assay (LLNA)
Species: Rat
Method: OECD Guideline 429
Result: Did not cause sensitisation on laboratory animals.

germ cell mutagenicity

Components:

[EDDHA.Fe] Na:

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

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Carcinogenicity

Components:

[EDDHA.Fe] Na:

Remarks: Contains no ingredient listed as a carcinogen

Reproductive toxicity

Components:

[EDDHA.Fe] Na:

Effects on fertility

:
Remarks: Contains no ingredient listed as toxic to reproduction

Effects on foetal development

: Remarks: Contains no ingredient listed as toxic to reproduction

STOT - single exposure

Components:

[EDDHA.Fe] Na:

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

STOT - repeated exposure

Components:

[EDDHA.Fe] Na:

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

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

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

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[EDDHA.Fe] Na:

- Toxicity to fish : LC50 (Fish): > 120 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna): > 120 mg/l
Method: OECD Test Guideline 202
- Toxicity to algae : LC50 : > 294 mg/l
Method: Algae, Growth Inhibition Test
- Toxicity to bacteria : > 1.000 mg/l
Method: OECD Guideline 209

12.2 Persistence and degradability

Components:

[EDDHA.Fe] Na:

- Biodegradability : Remarks: Expected to be biodegradable

12.3 Bioaccumulative potential

Components:

[EDDHA.Fe] Na:

- Bioaccumulation : Remarks: Does not bioaccumulate.
- Partition coefficient: n-octanol/water : log Pow: < -4,2

12.4 Mobility in soil

Components:

[EDDHA.Fe] Na:

- Mobility : Medium: Soil
Remarks: No data available

12.5 Results of PBT and vPvB assessment

Components:

[EDDHA.Fe] Na:

- Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

Product:

Additional ecological information : water endangering
Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.
Fertilizer
Check if agriculture use is possible.
Do not flush into surface water or sanitary sewer system.

Contaminated packaging : Offer rinsed packaging material to local recycling facilities.
If recycling is not practicable, dispose of in compliance with local regulations.

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

Water contaminating class (Germany) : WGK 2 water endangering

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15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

(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 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

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