

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

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

1.1 Product identifier

Product name KOPER 435

Other means of identification

Product code 50001901

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

Use of the Sub-
stance/Mixture : A fertilizer with micronutrients for use in agriculture

Recommended restrictions
on use : Use as recommended by the label.
For professional users only.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC Agro Limited
Rectors Lane, Pentre
Flintshire
CH5 2DH
United Kingdom

Telephone: + 44 1244 537370
E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
England and Wales: 44-870-8200418 (CHEMTREC)

Medical emergency:
England and Wales: 111
Scotland: 84 54 24 2424

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK
SI 2019/720, and UK SI 2020/1567)**

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal word : Warning

Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:
P273 Avoid release to the environment.

Response:
P391 Collect spillage.

Disposal:
P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Hazardous components which must be listed on the label:

ethanediol
1,2-benzisothiazol-3(2H)-one

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one.
May produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---------------|---|----------------|--------------------------|
| | | | |

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

Version 1.3 Revision Date: 15.08.2023 SDS Number: 50001901 Date of last issue: -
Date of first issue: 25.09.2019

| | | | |
|--------------------------------|--|--|---------------------|
| dicopper chloride trihydroxide | 1332-65-6 215-572-9 029-017-00-1 | Acute Tox. 3; H301 Acute Tox. 4; H332 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | $\geq 30 - < 60$ |
| ethanediol | 107-21-1 203-473-3 603-027-00-1 | Acute Tox. 4; H302 STOT RE 2; H373 (Kidney) | $\geq 5 - < 10$ |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 10 specific concentra- tion limit Skin Sens. 1; H317 $\geq 0.05 \%$ | $\geq 0.05 - < 0.1$ |

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.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
Take off all contaminated clothing immediately.
Wash contaminated clothing before reuse.
Call a physician if irritation develops or persists.
- In case of eye contact : Flush eyes with water as a precaution.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : None known.

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 : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides
Fire may produce irritating, corrosive and/or toxic gases.

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.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
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 : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the ap-
plication area.
Dispose of rinse water in accordance with local and national
regulations.

Advice on protection against : Normal measures for preventive fire protection.
fire and explosion

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep container tightly closed in a dry and well-ventilated
areas and containers place. Containers which are opened must be carefully re-
sealed and kept upright to prevent leakage. Electrical installa-
tions / working materials must comply with the technological
safety standards.

Further information on stor- : No decomposition if stored and applied as directed.
age stability

7.3 Specific end use(s)

Specific use(s) : Fertilizers

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

Version 1.3 Revision Date: 15.08.2023 SDS Number: 50001901 Date of last issue: -
Date of first issue: 25.09.2019

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--------------------------------|---|-------------------------------|---------------------------------|------------|
| ethanediol | 107-21-1 | TWA (Vapour) | 20 ppm 52 mg/m ³ | GB EH40 |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | TWA (particles) | 10 mg/m ³ | GB EH40 |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL (Vapour) | 40 ppm 104 mg/m ³ | GB EH40 |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 40 ppm 104 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 20 ppm 52 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| dicopper chloride trihydroxide | 1332-65-6 | TWA (Dusts and mists) | 1 mg/m ³ (Copper) | GB EH40 |
| | | STEL (Dusts and mists) | 2 mg/m ³ (Copper) | GB EH40 |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------------------|-----------|-----------------|----------------------------|------------------------|
| 1,2-benzisothiazol-3(2H)-one | Workers | Inhalation | Long-term systemic effects | 6.81 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 0.966 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 1.2 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 0.345 mg/kg |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|--------------------------------|---------------------------|-----------------------------|
| dicopper chloride trihydroxide | Fresh water | 0.0078 mg/l |
| | Marine water | 0.0052 mg/l |
| | Sewage treatment plant | 0.23 mg/l |
| | Fresh water sediment | 87 mg/kg dry weight (d.w.) |
| | Marine sediment | 676 mg/kg dry weight (d.w.) |
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 0.00403 mg/l |

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

| | | |
|--|------------------------|---------------|
| | Marine water | 0.000403 mg/l |
| | Sewage treatment plant | 1.03 mg/l |

8.2 Exposure controls

Personal protective equipment

- | | | |
|--------------------------|---|---|
| Eye protection | : | Eye wash bottle with pure water Tightly fitting safety goggles |
| Hand protection | : | |
| Material | : | Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. |
| Remarks | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Skin and body protection | : | Impervious clothing Choose body protection according to the amount and concen- tration of the dangerous substance at the work place. |
| Respiratory protection | : | No personal respiratory protective equipment normally re- quired. |
| Protective measures | : | Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper in- structions. Ensure that eye flushing systems and safety showers are located close to the working place. Wear suitable protective equipment. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|--|---|--------------------|
| Physical state | : | liquid |
| Colour | : | green |
| Odour | : | Barely perceptible |
| Odour Threshold | : | No data available |
| pH | : | 7.0 - 9.0 |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.3 | Revision Date: 15.08.2023 | SDS Number: 50001901 | Date of last issue: - Date of first issue: 25.09.2019 |
|----------------|------------------------------|-------------------------|--|

| | | |
|--|---|---------------------|
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | 1.31 - 1.35 |
| Density | : | No data available |
| Bulk density | : | No data available |
| Solubility(ies) Water solubility | : | soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity Viscosity, dynamic | : | 1,200 - 2,500 mPa,s |
| Viscosity, kinematic | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | Non-oxidizing |

9.2 Other information

| | | |
|----------------------------|---|-------------------|
| Particle size | : | 2.5 - 10 µm |
| Particle Size Distribution | : | 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 decomposition if stored and applied as directed. |
|---------------------|---|---|

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

10.4 Conditions to avoid

Conditions to avoid : Heat

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Strong acids
Strong bases

10.6 Hazardous decomposition products

Toxic fumes

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 Oral (Rat): > 3,000 mg/kg
Remarks: Estimated data

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

dicopper chloride trihydroxide:

Acute oral toxicity : LD50 (Rat, male): 1,083 mg/kg
Method: OECD Test Guideline 401
LD50 (Rat, female): 950 mg/kg
Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat, male): 2.83 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: Fatality
LC50 (Rat, female): > 2.77 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: Fatality

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Acute dermal toxicity : LD50 (Rabbit, female): > 2,000 mg/kg
Method: US EPA Test Guideline OPP 81-2
Symptoms: Fatality

LD0 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: no mortality

ethanediol:

Acute inhalation toxicity : LC0 (Rat, male and female): > 2.5 mg/l
Exposure time: 6 h
Test atmosphere: dust/mist
Remarks: no mortality

Acute dermal toxicity : LD50 (Mouse, male and female): > 3,500 mg/kg

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : No data available

Components:

dicopper chloride trihydroxide:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

ethanediol:

Species : Rabbit
Result : No skin irritation

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404
Result : No skin irritation

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : No data available

Components:

dicopper chloride trihydroxide:

| | |
|---------|---------------------------|
| Species | : Rabbit |
| Method | : OECD Test Guideline 405 |
| Result | : No eye irritation |

ethanediol:

| | |
|---------|---------------------|
| Species | : Rabbit |
| Result | : No eye irritation |

1,2-benzisothiazol-3(2H)-one:

| | |
|---------|---------------------------|
| Species | : Bovine cornea |
| Method | : OECD Test Guideline 437 |
| Result | : No eye irritation |

| | |
|---------|-----------------------------------|
| Species | : Rabbit |
| Method | : EPA OPP 81-4 |
| Result | : Irreversible effects on the eye |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : No data available

Components:

dicopper chloride trihydroxide:

| | |
|-----------|--------------------------------------|
| Test Type | : Maximisation Test |
| Species | : Guinea pig |
| Method | : OECD Test Guideline 406 |
| Result | : Does not cause skin sensitisation. |

ethanediol:

| | |
|-----------|--------------------------------------|
| Test Type | : Maximisation Test |
| Species | : Guinea pig |
| Result | : Does not cause skin sensitisation. |

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

1,2-benzisothiazol-3(2H)-one:

| | |
|-----------|--|
| Test Type | : Maximisation Test |
| Species | : Guinea pig |
| Method | : OECD Test Guideline 406 |
| Result | : May cause sensitisation by skin contact. |

| | |
|---------|--|
| Species | : Guinea pig |
| Method | : FIFRA 81.06 |
| Result | : May cause sensitisation by skin contact. |

Germ cell mutagenicity

Not classified based on available information.

Components:

dicopper chloride trihydroxide:

| | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative |
|-----------------------|--|

| | |
|----------------------|---|
| Genotoxicity in vivo | : Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Oral Method: Mutagenicity (micronucleus test) Result: negative |
|----------------------|---|

| | |
|--|--|
| | : Test Type: DNA binding study Species: Rat (male) Application Route: Oral Result: negative |
|--|--|

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

ethanediol:

| | |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: reverse mutation assay Method: OPPTS 870.5100 Result: negative |
|-----------------------|---|

| | |
|----------------------|--|
| Genotoxicity in vivo | : Test Type: dominant lethal test Species: Rat Application Route: Oral Result: negative |
|----------------------|--|

1,2-benzisothiazol-3(2H)-one:

| | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative |
|-----------------------|--|

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

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

Carcinogenicity

Not classified based on available information.

Components:

ethanediol:

Species : Mouse
Application Route : Oral
Exposure time : 24 month(s)
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

dicopper chloride trihydroxide:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Dose: 0, 100, 500, 1000, 1500 parts per million
General Toxicity - Parent: LOAEL: 1,500
General Toxicity F1: LOAEL: 1,500
General Toxicity F2: LOAEL: 1,500
Method: OECD Test Guideline 416
Result: negative

Effects on foetal develop- : Test Type: reproductive and developmental toxicity study

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.3 | Revision Date: 15.08.2023 | SDS Number: 50001901 | Date of last issue: - Date of first issue: 25.09.2019 |
|----------------|------------------------------|-------------------------|--|

ment

Species: Rat
Application Route: Oral
Dose: 0, 100, 500, 1000, 1500 parts per million
Duration of Single Treatment: 70 d
General Toxicity Maternal: LOAEL: 1,500 part per million
Embryo-foetal toxicity: LOAEL: 1,500 part per million
Method: OECD Test Guideline 416
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male
Application Route: Ingestion
General Toxicity - Parent: NOAEL: 18.5 mg/kg body weight
General Toxicity F1: NOAEL: 48 mg/kg body weight
Fertility: NOAEL: 112 mg/kg bw/day
Symptoms: No effects on reproduction parameters
Method: OPPTS 870.3800
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT - single exposure

Not classified based on available information.

Components:

dicopper chloride trihydroxide:

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

STOT - repeated exposure

Not classified based on available information.

Components:

ethanediol:

Exposure routes : Oral
Target Organs : Kidney
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

1,2-benzisothiazol-3(2H)-one:

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

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Repeated dose toxicity

Components:

dicopper chloride trihydroxide:

| | |
|-------------------|---------------------------------|
| Species | : Rat, male and female |
| NOAEL | : 1000 ppm |
| LOAEL | : 2000 ppm |
| Application Route | : Oral - feed |
| Exposure time | : 92 d |
| Dose | : 0,500,1000,2000,4000,8000 ppm |

| | |
|-------------------|-----------------------------------|
| Species | : Rat, male and female |
| NOAEL | : ≥ 2 mg/m ³ |
| Application Route | : Inhalation |
| Test atmosphere | : dust/mist |
| Exposure time | : 28 d |
| Dose | : 0.2,0.4,0.8,2 mg/m ³ |
| Method | : OECD Test Guideline 412 |

ethanediol:

| | |
|-------------------|-------------|
| Species | : Rat |
| NOAEL | : 150 mg/kg |
| Application Route | : Oral |
| Exposure time | : 12 months |

| | |
|-------------------|-----------------------------|
| Species | : Dog |
| NOAEL | : $> 2,200 - < 4,400$ mg/kg |
| Application Route | : Dermal |
| Exposure time | : 4 weeks |
| Method | : OECD Test Guideline 410 |

1,2-benzisothiazol-3(2H)-one:

| | |
|-------------------|---------------------------|
| Species | : Rat, male and female |
| NOAEL | : 15 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 28 d |
| Method | : OECD Test Guideline 407 |
| Symptoms | : Irritation |

| | |
|-------------------|-----------------------------------|
| Species | : Rat, male and female |
| NOAEL | : 69 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 90 d |
| Symptoms | : Irritation, Reduced body weight |

Aspiration toxicity

Not classified based on available information.

Further information

Product:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.3 | Revision Date: 15.08.2023 | SDS Number: 50001901 | Date of last issue: - Date of first issue: 25.09.2019 |
|----------------|------------------------------|-------------------------|--|

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

| | |
|---|---|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.03 mg/l Exposure time: 96 h Remarks: Estimated value |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.206 mg/l Exposure time: 48 h Remarks: Estimated value |
| Toxicity to algae/aquatic plants | : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.730 mg/l Exposure time: 72 h Remarks: Estimated value |

Components:

dicopper chloride trihydroxide:

| | |
|---|--|
| Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 0.0384 mg/l Exposure time: 96 h Test Type: flow-through test Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0.0338 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Ceriodaphnia dubia (water flea)): 0.014 mg/l Exposure time: 48 h Test Type: semi-static test |
| Toxicity to algae/aquatic plants | : NOEC (Phaeodactylum tricornutum): 0.0057 mg/l Exposure time: 72 h Method: ISO 10253 NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.0157 mg/l Exposure time: 72 h Test Type: static test EC50 (Chlamydomonas reinhardtii (green algae)): 0.047 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (algae)): 0.0194 mg/l Exposure time: 72 h |

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Test Type: static test

NOEC (Skeletonema costatum (Diatom)): 0.00754 mg/l
Exposure time: 72 h
Test Type: static test

NOEC (Chlamydomonas reinhardtii (green algae)): 0.022 mg/l
Exposure time: 10 d
Test Type: flow-through test

NOEC (Lemna minor (duckweed)): 0.030 mg/l
Exposure time: 7 d
Test Type: static test

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (Bacteria): 0.025 mg/l
Exposure time: 100 d

NOEC (Tetrahymena pyriformis): 3.563 mg/l
Exposure time: 48 h
Test Type: Growth inhibition

NOEC (activated sludge): 0.26 - 0.29 mg/l
Exposure time: 30 d
Test Type: Respiration inhibition

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : NOEC: 25 mg/kg
Exposure time: 6 Weeks
Species: worms

Toxicity to terrestrial organisms : LD50: 1,400 mg/kg
Exposure time: 14 d
Species: Colinus virginianus (Bobwhite quail)

ethanediol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 72,860 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): 10,940 mg/l
Exposure time: 96 h

Toxicity to microorganisms : (activated sludge): > 1,995 mg/l

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

Exposure time: 30 min
Method: ISO 8192

Toxicity to fish (Chronic toxicity) : 1,500 mg/l
Exposure time: 28 d
Species: Menidia peninsulae (tidewater silverside)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 33,911 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16.7 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2.15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.070 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): 12.8 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

12.2 Persistence and degradability

Components:

dicopper chloride trihydroxide:

Biodegradability : Remarks: Not readily biodegradable.

ethanediol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 10 d
Method: OECD Test Guideline 301A

1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Components:

dicopper chloride trihydroxide:

Bioaccumulation : Remarks: Not applicable due to the insolubility of the salt.

ethanediol:

Partition coefficient: n-octanol/water : log Pow: -1.36

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 56 d
Bioconcentration factor (BCF): 6.62
Method: OECD Test Guideline 305
Remarks: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0.7 (20 °C)
pH: 7

log Pow: 0.99 (20 °C)
pH: 5

12.4 Mobility in soil

Components:

dicopper chloride trihydroxide:

Distribution among environmental compartments : Remarks: Low mobility in soil

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

1,2-benzisothiazol-3(2H)-one:

Distribution among environmental compartments : Koc: 9.33 ml/g, log Koc: 0.97
Method: OECD Test Guideline 121
Remarks: Highly mobile in soils

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.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : 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.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.3 | Revision Date: 15.08.2023 | SDS Number: 50001901 | Date of last issue: - Date of first issue: 25.09.2019 |
|----------------|------------------------------|-------------------------|--|

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(dicopper chloride trihydroxide)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(dicopper chloride trihydroxide)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(dicopper chloride trihydroxide)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(dicopper chloride trihydroxide)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(dicopper chloride trihydroxide)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADN
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

| | | |
|--|---|---------------|
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |
| IATA (Cargo) | | |
| Packing instruction (cargo aircraft) | : | 964 |
| Packing instruction (LQ) | : | Y964 |
| Packing group | : | III |
| Labels | : | Miscellaneous |
| IATA (Passenger) | | |
| Packing instruction (passenger aircraft) | : | 964 |
| Packing instruction (LQ) | : | Y964 |
| Packing group | : | III |
| Labels | : | Miscellaneous |

14.5 Environmental hazards

| | |
|---------------------------|-------|
| ADN | |
| Environmentally hazardous | : yes |
| ADR | |
| Environmentally hazardous | : yes |
| RID | |
| Environmentally hazardous | : yes |
| IMDG | |
| Marine pollutant | : yes |
| IATA (Passenger) | |
| Environmentally hazardous | : yes |
| IATA (Cargo) | |
| Environmentally hazardous | : yes |

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| | | |
|--|---|---|
| UK REACH List of restrictions (Annex 17) | : | Conditions of restriction for the following entries should be considered: Number on list 3 ethanediol (Number on list 3) reaction mass of 5-chloro-2-methyl- |
|--|---|---|

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

2H-isothiazol-3-one and 2-methyl-
2H-isothiazol-3-one (3:1) (Number
on list 3)

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

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

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

Control of Major Accident Hazards Regulations 2015 (COMAH) E1 ENVIRONMENTAL HAZARDS
E1

Other regulations:

The components of this product are reported in the following inventories:

| | |
|-------|--|
| TCSI | : Not in compliance with the inventory |
| TSCA | : Product contains substance(s) not listed on TSCA inventory. |
| AIIC | : Not in compliance with the inventory |
| DSL | : This product contains the following components that are not on the Canadian DSL nor NDSL. Ethanol, 2,2',2''-nitritoltris-, compd. with .alpha.-[2,4,6-tris(1-phenylethyl)phenyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl)phosphate emulsion of silicone |
| ENCS | : Not in compliance with the inventory |
| ISHL | : Not in compliance with the inventory |
| KECI | : Not in compliance with the inventory |
| PICCS | : Not in compliance with the inventory |
| IECSC | : Not in compliance with the inventory |
| NZIoC | : Not in compliance with the inventory |
| TECI | : Not in compliance with the inventory |

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

| | |
|------|---|
| H301 | : Toxic if swallowed. |
| H302 | : Harmful if swallowed. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage. |
| H332 | : Harmful if inhaled. |
| H373 | : May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H411 | : 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 Dam. | : Serious eye damage |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| 2000/39/EC | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GB EH40 | : UK. EH40 WEL - Workplace Exposure Limits |
| 2000/39/EC / TWA | : Limit Value - eight hours |
| 2000/39/EC / STEL | : Short term exposure limit |
| GB EH40 / TWA | : Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : Short-term exposure limit (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 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;

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



KOPER 435

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.3 | 15.08.2023 | 50001901 | Date of first issue: 25.09.2019 |

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; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture:

| | |
|-------------------|------|
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 2 | H411 |

Classification procedure:

Based on product data or assessment
Calculation method

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared by

FMC Corporation

FMC and the FMC Logo are trademarks of FMC Corporation and/or an affiliate.

© 2021-2023 FMC Corporation. All Rights Reserved.

GB / 6N