

1 Identification of the substances/ mixture and of the company/ undertaking**1.1 Product Identifiers**

Product Number M552
Product Name Clausen Medium
REACH Registration Number This product is a mixture. Reach registration number is not available for this mixture.

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

1.2.1 Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis

1.3 Details of the supplier of the safety data sheet

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2 Hazards Identification**2.1 Classification of the substance or mixture**

CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Sensitisation, Skin, (Category 1), H317

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008



Pictogram

Signal word Warning

Hazard Statement(s)

H317 May cause an allergic skin reaction

Precautionary Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

2.3 Other Hazards

None

3 Composition/Information On Ingredients

3.2 Mixture

Component	Classification	Concentration
Sodium dithionite (Sodium hydrosulfite)		
CAS No. : 7775-14-6 EC No. : 231-890-0	As Per EC Regulation 1272/2008 Self-heat. 1; Acute Tox.oral 4 H251; H302	>=1.0 - <=10.0%

Component	Classification	Concentration
Sodium thioglycollate		
CAS No. : 367-51-1 EC No. : 206-696-4	As Per EC Regulation 1272/2008 Acute Tox.oral. 3; Skin Sens. 1 H301; H317	>=1.0 - <=10.0%

Component	Classification	Concentration
Calcium chloride, anhydrous		
CAS No. : 10043-52-4 EC No. : 233-140-8	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=0.01 - <=0.1%

Component	Classification	Concentration
Cobaltous sulphate		
CAS No. : 10026-24-1 EC No. : 233-334-2	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Sens. 1; Resp. Sens. 1; Muta. 2; Carc. 1B; Repr. 1B; Aquatic Chronic 1 H302; H317; H334; H341; H350i; H360F; H410	>=0.001 - <=0.01%

Component	Classification	Concentration
Cupric sulphate		
CAS No. : 7758-98-7 EC No. : 231-847-6	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.001 - <=0.01%

Component	Classification	Concentration
Ferrous sulphate		
CAS No. : 7720-78-7 EC No. : 231-753-5 Index-No : 026-003-00-7 Molecular Formula : FeSO ₄	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.001 - <=0.01%

Component	Classification	Concentration
Zinc sulphate		
CAS No. : 7446-19-7	As Per EC Regulation 1272/2008 Eye Dam. 1; Aquatic Chronic 1 H318; H410	>=0.001 - <=0.01%
EC No. : 231-793-3		

Refer Section 16 for complete statement of H codes and its classification

4 First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash with plenty of soap and water. Consult a physician.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Sodium oxides, Oxides of phosphorus, Potassium oxides, Magnesium oxides, Sulphur oxides

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information

No data available

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature : On receipt store between 10-30°C

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

Personal protective equipment

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye/face protection

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to

engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls

Do not empty into drains.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Cream to yellow coloured homogeneous free flowing powder
Odour	No data available
Odour Threshold	No data available
pH	6.90 - 7.30
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

9.2 Other safety information

No data available

10 Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Refer Section 5.2. Other Decomposition products not known.

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity- single exposure

No data available

Aspiration hazard

No data available

11.2 Components

Sodium dithionate (Sodium hydrosulfite)

Acute oral toxicity

Rat oral LD50: 2500 mg/kg,7d (ECHA)

(As per OECD Guideline 401)

Acute Dermal Toxicity

Rat Dermal LD50: 2000 mg/kg ,15d (ECHA)

(AS per OECD Guideline 402)

Rabbit Dermal LD50:>10000 mg/kg

Repeated dose toxicity; oral

Rats NOAEL can be expected above the highest dose level

tested 53: mg/kg (ECHA)

Carcinogenicity

Considered to exert tumour-promoting activity in the rat glandular stomach.

Acute Potential Health Effects

Effect on Skin

Causes skin irritation. Contact dermatitis may develop in sensitive individuals.

Effect on Eyes

Causes eye irritation and possible eye damage.

Effect on inhalation

It can irritate the respiratory tract (nose, throat, lungs)and cause wheezing,and/or shortness of breath.

Effect on Ingestion

May be harmful if ingested. It can cause gastrointestinal tract irritation with nausea, abdominal pain, vomiting, and diarrhea.

Additional Information

RTECS : JP2100000

Sodium Thioglycollate

Acute oral toxicity

Rat LD50: 50-200 mg/kg(As per OECD Test Guideline 423)

Acute dermal toxicity

Rat LD50: >1000-2000 mg/kg(As per OECD Test Guideline 402)

Skin irritation

Rabbit: Slight irritation(As per OECD Test Guideline 404)

Eye irritation

Rabbit: Slight irritation(As per OECD Test Guideline 405)

Sensitization

Local Lymph Node Assay(LLNA)

Mouse: Positive (As per OECD Test Guideline 429)

Germ cell mutagenicity

Genotoxicity in vivo

In vivo micronucleus test:Mouse (male & female)

Oral Result: Negative method(As per OECD Test Guideline 474)

Genotoxicity in vitro

Ames Test: *Salmonella* Typhimurium

Result: Negative(As per OECD Test Guideline 471)

Additional information:

RTECS: AI7700000

Calcium chloride

Acute oral toxicity

Rat LD50 : 1,000 mg/kg

(As per IUCLID)

Acute dermal toxicity

Rat LD50 : 2,630 mg/kg

(As per IUCLID)

Skin irritation

Rabbit

Result : No irritation

(As per OECD Test Guideline 404)

Eye irritation

Rabbit

Result: Eye irritation

(As per OECD Test Guideline 405)

Causes serious eye irritation.

Additional Information

RTECS: EV9800000

Ferrous sulphate

Acute Oral Toxicity

Mouse LD50: 1.520 mg/kg

Additional Information

RTECS: NO8510000

Zinc Sulphate, Heptahydrate

Acute Oral Toxicity

Rat LD50: 1,260 mg/kg (As Per RTECS)

Additional information

RTECS: ZH5300000

12 Ecological Information

12.1 Toxicity

No data available

Components

Sodium dithionate (Sodium hydrosulfite)

Toxicity to fish

Short term acute toxicity

Leuciscus idus (Golden orfe) LC50:62.3 mg/L,96h (ECHA)

(As per DIN 38412,Part 15)

Long term acute toxicity

Danio rerio (Zebrafish) NOEC of \geq 316 mg/L,34d (ECHA)

(As per OECD Guideline 210)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna STRAUSS LC50 of 98.3 mg test item/L,48 h,(ECHA)

(As per Standard acute invertebrate toxicity test)

Toxicity to aquatic algae and cyanobacteria

Desmodesmus subspicatus (former name: Scenedesmus subspicatus)

EC10: 81.7 mg/Land EC50 : 206.2 mg /L, 72h (ECHA)

Toxicity to bacteria

Pseudomonas putida EC50 and EC10: 106.5 and 61.6 mg/L,17h(ECHA)

(As per DIN 38412, Part 8)

Components

Sodium thioglycollate

Toxicity to fish

Oncorhynchus mykiss(rainbow trout)LC50: > 100 mg/l; 96 h

(As per OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea)EC50: 38 mg/l; 48 h

(As per OECD Test Guideline 202)

Toxicity to algae

Desmodesmus subspicatus (green algae)EC50: > 100 mg/l; 72h

(As per OECD Test Guideline 201)

Toxicity to bacteria

EC50 Activated sludge: 820 mg/l; 0.5 h

(As per OECD Test Guideline 209)

Components

Calcium chloride

Toxicity to fish

Lepomis macrochirus (Bluegill sunfish) LC50 : 10,650 mg/l; 96 h

(As per IUCLID)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea) EC50 : 144 mg/l; 48 h

(As per IUCLID)

Toxicity to algae

Algae IC50 : 3,130 mg/l; 120 h

(As per IUCLID)

Components

Ferrous sulphate

Toxicity to fish

Brook trout (Salvelinus fontinalis) LC 50: 0.41 mg/l ; 96h

Toxicity to daphnia and other aquatic invertebrates

Water flea (Daphnia magna) EC 50:6.15 mg/l;48h

Components

Zinc Sulphate, Heptahydrate

Toxicity to fish

Oncorhynchus mykiss (rainbow trout)LC50: 0.1 mg/l; 96 h

(As Per ECOTOX Database)

Toxicity to algae

Scenedesmus quadricuada (green algae)IC50: 0.52 mg/l; 5 d

(As Per IUCLID)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

13 Disposal Considerations

13.1 Waste treatments methods

Product

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN-No

ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.2 UN proper shipping name

ADNR : Not dangerous goods
ADR : Not dangerous goods
IATA_C : Not dangerous goods
IATA_P : Not dangerous goods
IMDG : Not dangerous goods
RID : Not dangerous goods

14.3 Transport hazard class(es)

ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : -

14.4 Packaging group

ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.5 Environmental hazards

ADNR : No ADR : No IMDG : Marine Pollutant No IATA_C : No IATA_P : No RID : No

14.6 Special precautions for use

No data available

15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

No data available

16 Other information

Text of H codes and classification mentioned in section 3

H251	Self-heating; may catch fire
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects

H350i	May cause cancer by inhalation
H360F	May damage fertility
H410	Very toxic to aquatic life with long lasting effects
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Acute Tox.oral. 3	Acute toxicity, oral, Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Sensitisation, respiratory, Category 1
Self-heat. 1	Self-heating substances and mixtures, Category 1
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1

Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.