

Safety Data Sheet

C0248

Version: 2.0

according to Regulation (EU) 2015/830

Date of issue: 20/06/2012 Revision date 23/07/2018

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

#### **Product identifier** 1.1.

Product form : Mixture

Trade name : Chee & Pool Basal Salt Medium

(Micro and Macro elements)

Product code : C0248

Synonyms : Chee and Pool (C2D) Vitis Medium

: Raw material Product group

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

### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

# 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

## Manufacturer

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

#### 1.4. **Emergency telephone number**

: Supplier contact information: **Emergency number** 

> +31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world	http://apps.who.int/poisoncentres/	Consult website for a local poison centre
directory of poison centres	,	·

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity — Single exposure, Category 3, H335

Respiratory tract irritation

Full text of H statements: see section 16

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## Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P261 - Avoid breathing dust.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351 - IF IN EYES: Rinse cautiously with water for several minutes.

Extra phrases : Based on research by TNO in Rijswijk (The Netherlands), commissioned by

Duchefa Biochemie B.V. in Haarlem, the medium has no oxidising or explosive properties. As such the substance is not classified as oxidizing

(H272, GHS03).

## 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium nitrate	(CAS-No.) 7757-79-1 (EC-No.) 231-818-8	42,6153	Ox. Sol. 2, H272
Ammonium nitrate	(CAS-No.) 6484-52-2 (EC-No.) 229-347-8	37,008	Ox. Sol. 3, H272
Calcium nitrate tetrahydrate	(CAS-No.) 13477-34-4 (EC-No.) 233-332-1	11,0419	Ox. Sol. 3, H272 Eye Irrit. 2, H319
Magnesium sulfate anhydrous	(CAS-No.) 7487-88-9 (EC-No.) 231-298-2	4,0494	Not classified
Potassium dihydrogenphosphate	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4	3,813	Not classified
Ethylenediaminetetraacetate ferric sodium	(CAS-No.) 15708-41-5 (EC-No.) 239-802-2	0,8231	Not classified

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Zinc sulphate	(CAS-No.) 7446-20-0 (EC-No.) 231-793-3 (EC Index-No.) 030-006-00-9	0,1929	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Boric acid substance listed as REACH Candidate	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2	0,1391	Repr. 1B, H360FD
Manganese sulfate monohydrate	(CAS-No.) 10034-96-5 (EC-No.) 232-089-9 (EC Index-No.) 025-003-00-4	0,0191	Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 2, H411
Sodium molybdate dihydrate	(CAS-No.) 10102-40-6 (EC-No.) 231-551-7	0,0056	Not classified
Cobalt(II) chloride substance listed as REACH Candidate (Cobalt dichloride)	(CAS-No.) 7646-79-9 (EC-No.) 231-589-4 (EC Index-No.) 027-004-00-5	0,0006	Acute Tox. 4 (Oral), H302 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350i Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Copper sulphate	(CAS-No.) 7758-99-8 (EC-No.) 231-847-6 (EC Index-No.) 029-004-00-0	0,0006	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Boric acid	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2	(C >= 5,5) Repr. 1B, H360FD
Cobalt(II) chloride	(CAS-No.) 7646-79-9 (EC-No.) 231-589-4 (EC Index-No.) 027-004-00-5	(C >= 0,01) Carc. 1B, H350i

Full text of H-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Seek medical attention if ill effect develops.

First-aid measures after inhalation : Remove victim to fresh air.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : Rinse with water. First-aid measures after ingestion : Rinse mouth.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Redness, pain.

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# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam.

Dry chemical powder. Carbon dioxide (CO2).

Water spray.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in : Under fire conditions, hazardous fumes will be present:

case of fire

- COx

- NOx - SOx.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment.

Protection during firefighting : Wear proper protective equipment.

# **SECTION** 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid raising powdered materials into airborne dust.

# 6.1.1. For non-emergency personnel

Emergency procedures : Wear suitable protective clothing.

# 6.1.2. For emergency responders

No additional information available

# 6.2. Environmental precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly.

## 6.4. Reference to other sections

No additional information available

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Handle in accordance with good industrial hygiene

and safety procedures.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature

Store in dry, well-ventilated area

Hygroscopic

Keep container tightly closed and dry.

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# 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

# 8.2. Exposure controls

## Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

# Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

# Skin and body protection:

In case of possible repeated skin contact wear protective clothing

## Respiratory protection:

Where excessive dust may result, wear approved mask. Type P2 (EN 143)

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.

Colour : White to slightly yellow.

Odour Characteristic. Weak.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

: No data available Melting point Freezing point : No data available **Boiling point** : No data available : No data available Flash point : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Readily soluble in water.

Log Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data available

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Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

Stable under normal conditions of storage, handling and use.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Moisture.

# 10.5. Incompatible materials

Strong oxidizers.

# 10.6. Hazardous decomposition products

Thermal decomposition generates:

- COx
- NOx
- SOx
- Phosphorus oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

# 12.1. Toxicity

No additional information available

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# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

Chee & Pool Basal Salt Medium (Micro and Macro elements)	
Component	
Boric acid (10043-35-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Other adverse effects

Additional information : Prevent entry to sewers and public waters. Avoid release to the environment

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordar

: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA
14.1. UN number		
Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

# 14.6. Special precautions for user

# Overland transport

Not regulated

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# - Transport by sea

Not regulated

# - Air transport

Not regulated

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

Not applicable

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3)

Contains no REACH Annex XIV substances

## 15.1.2. National regulations

Ensure all national/local regulations are observed.

### Germany

Reference to AwSV

: Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act -

12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

# **Netherlands**

SZW-lijst van kankerverwekkende stoffen

: Manganese sulfate monohydrate, Cobalt(II) chloride are

listed

SZW-lijst van mutagene stoffen

: Manganese sulfate monohydrate is

listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

: Boric acid, Cobalt(II) chloride are

listed

: Boric acid is listed

### **Denmark**

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the

product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

#### 15.2. **Chemical safety assessment**

No additional information available

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# **SECTION 16: Other information**

# Indication of changes:

2.2	Hazard statements (CLP)	Added	H315;H319;H335
2.2	Signal word (CLP)	Added	Warning
2.2	Hazard pictograms (CLP)	Added	GHS07
2.2	Precautionary statements (CLP)	Added	P261;P302+P352;P305+P351

# Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

# Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. TNO (Netherlands Organisation for Applied Scientific Research).

# Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H272	May intensify fire; oxidiser.	
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.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H350i	May cause cancer by inhalation.	
H360F	May damage fertility.	
H360FD	May damage fertility. May damage the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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.	

# SDS Biochemicals version 2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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