

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 1/8



Powering Business Worldwide

SIHA Combisäure Granulat

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

1.1. Product identifier

Trade name/designation:

SIHA Combisäure Granulat

Additional information:

The substance does not require registration according to REACH.;

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

Use of the substance/mixture:

Product for the acidification of Mashers.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

1.4. Emergency telephone number

Emergency medical information: Giftinformationszentrum Mainz (German and English)., 24h: +49 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion

Signal word: Danger

hazard statements for health hazards	
H318	Causes serious eye damage.

Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 2/8



Powering Business Worldwide

SIHA Combisäure Granulat

Precautionary statements Prevention

P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311	Call a POISON CENTER/doctor/....

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of organic halogen free acid.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CL P]	Concentration
CAS No.: 5949-29-1 REACH No.: 01-2119457026-42	ZITRONENSÄURE, WASSERHALTIG ⚠ Warning H319	0 - 55 Wt %
CAS No.: 6915-15-7 EC No.: 230-022-8	malic acid ⚠ Danger H319	0 - 40 Wt %
CAS No.: 87-69-4 EC No.: 201-766-0 REACH No.: 01-2119537204-47	(+)-tartaric acid ⚠ Danger H318	0 - 10 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Avoid contact with skin, eyes and clothes.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. If unconscious place in recovery position and seek medical advice.

In case of breathing difficulties administer oxygen.

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

IF ON CLOTHING: Take off immediately all contaminated clothing.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Irritating to eyes and skin.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 3/8



Powering Business Worldwide

SIHA Combisäure Granulat

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media: Carbon dioxide (CO₂), Water mist, Foam, Dry extinguishing powder

Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), Pyrolysis products, toxic
Danger of dust explosion.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid contact with skin, eyes and clothes.

Keep unprotected people away and stay on the upwind side.

Do not breathe dust.

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Dispose of waste according to applicable legislation.

Avoid dust formation.

Wash with plenty of water.

6.4. Reference to other sections

No data available

6.5. Additional information

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Provide adequate ventilation as well as local exhaustion at critical locations.

Do not breathe dust.

Avoid contact with skin, eyes and clothes.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 4/8



Powering Business Worldwide

SIHA Combisäure Granulat

Fire prevent measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Explosive dust-air mixtures may form. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. Keep in a cool, well-ventilated place.
Protect from sunlight.
Suitable floor material: acid-resistant

Hints on storage assembly:

Do not store together with: Base, Oxidising agent

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	(+)-tartaric acid CAS No.: 87-69-4	① 2 mg/m ³ ② 4 mg/m ³ ⑤ einatembare Fraktion

8.1.2. biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

8.2.2. Personal protection equipment

Eye/face protection:

Tightly sealed safety glasses.

Skin protection:

Protect skin by using skin protective cream.

Thorough skin-cleansing after handling the product.

Hand protection: The selection of suitable gloves not only depends on the material, but also on other quality characteristics. These may vary from manufacturer to manufacturer. Since the product is a preparation from several substances, the resistance of glove materials cannot be determined in advance and must therefore be checked prior to the application.

Suitable material: The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 5/8



Powering Business Worldwide

SIHA Combisäure Granulat

Other protection measures:

Protective clothing: lab coat

General health and safety measures: When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Thorough skin-cleansing after handling the product. Take off immediately all contaminated clothing.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: crystalline

Colour: white

Odour: odourless

Safety relevant basis data

parameter		at °C	method	Remark
pH	2.1 - 2.5	20 °C		
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Substance is, under normal conditions, chemically stable.

10.3. Possibility of hazardous reactions

Reacts with : Alkali (lye)

10.4. Conditions to avoid

Keep away from heat.

Protect from moisture.

Avoid dust formation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 6/8



Powering Business Worldwide

SIHA Combisäure Granulat

10.5. Incompatible materials

Alkali (lye), Oxidising agent

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide

Additional information

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Toxicological data are not available.

Acute dermal toxicity:

Toxicological data are not available.

Acute inhalation toxicity:

Toxicological data are not available.

Skin corrosion/irritation:

Risk of serious damage to eyes.

Irritant effect on the skin: mild irritant.

Inhalation of dust may cause irritation of the respiratory system.

After ingestion Gastrointestinal complaints Nausea Vomiting

Respiratory or skin sensitisation:

No data available

Carcinogenicity:

No data available

Additional information:

Specific symptoms in animal studies: No data available

Repeated dose toxicity (subacute, subchronic, chronic): No data available

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

According to the present state of knowledge negative ecological effects are not expected.

No data available

Terrestrial toxicity:

No data available

Effects in sewage plants:

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
87-69-4	(+)-tartaric acid	—
6915-15-7	malic acid	—

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 7/8



Powering Business Worldwide

SIHA Combisäure Granulat

12.6. Other adverse effects

Further ecological information: Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The waste code numbers according to the German Waste Catalogue are substance-related, while the Waste code numbers according to the European Waste Catalogue (EWC code) are source-related. The exact assignment to a waste code according to the EWC code can only be undertaken by the user who generates waste products from them requiring disposal.

Waste treatment options

Appropriate disposal / Package:

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Water

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Störfallverordnung

Remark:

Unterliegt nicht der StörfallV.

Technische Anleitung Luft (TA-Luft)

Klasse 1:

III

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 06-May-2016

Print date: 10-May-2016

Version: 3

Page 8/8



Powering Business Worldwide

SIHA Combisäure Granulat

Ziffer 1:

5.2.5

Anteil 1:

20 %

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Source:

Anh. 4

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.