

Safety data sheet

According to 1907/2006/EC, Article 31

Printing Date: 30.01.2018

V 6

Revision Date: 18.04.2017

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

1.1. Produktidentifizier

Product name: APISPERSE M01

Chemical name Maleinsäure copolymer

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

Identified uses Scale inhibitor

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

API-Additives for Paper Industry GmbH

Seestraße 19

5162 OBERTRUM AM SEE

AUSTRIA

Tel.: +43 6219 20340

E-Mail: api@api-paperchem.at

Further information obtainable from: Labor

1.4 Emergency telephone number:

business day:

Mo - Th: 9:00 - 16:00 Hr. Ing. Hofstötter

Fr: 9:00 - 13:00

Tel.: +43 6219 20340-14

E-Mail: labor@api-paperchem.at

Emergency telephone +44 (0) 1235 239 670 (NCEC)

National emergency telephonenumber

For Medical Emergency: 1-303-623-5716

For Transport Emergency: 1-800-424-9300 (CHEMTREC)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards

Met. Corr. 1 - H290

Health hazards

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

Xi;R36/38.

2.2. Label elements

Signal word: Warning

Pictogram:



GHS05

Hazard-determining component for labeling

maleic acid copolymer

Hazard statements

H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P406 Store in corrosive resistant/... container with a resistant inner liner.

Supplemental label information

EUH208 Contains Maleic acid. May produce an allergic reaction.

Supplementary precautionary statements

P234 Keep only in original container.
P264 Wash contaminated skin thoroughly after handling.
P321 Specific treatment (see medical advice on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P390 Absorb spillage to prevent material damage.

2.3. Other Hazards -

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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

MALEIC ACID COPOLYMER CAS-Number: 113221-69-5	30-60%
Classification Met. Corr. 1 - H290 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EWG or 1999/45/EG) Xi;R36/38.
MALEINSAURE CAS-Number: 110-16-7 EG-Number: 203-742-5	5-10%
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EWG or 1999/45/EG) Xn;R22 Xi;R36/37/38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments: Aqueous solution of maleic acid copolymer.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention.

Skin contact Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

Inhalation No specific symptoms known. Irritation of nose, throat and airway.

Ingestion May cause stomach pain or vomiting.

Skin contact Skin irritation Prolonged contact may cause redness, irritation and dry skin.

Eye contact Irritation of eyes and mucous membranes. Profuse watering of the eyes.

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

Notes for the doctor Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Protective actions during firefighting

Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Leave danger zone immediately. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Follow precautions for safe handling described in this safety data sheet. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Avoid release to the environment. To prevent release, place container with damaged side up.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours. Good personal hygiene procedures should be implemented.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in a tightly-closed, original container in a dry, cool, and well-ventilated place. Store at temperatures not exceeding 50°C /122°F. Protect from freezing and direct sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogeneous. Store away from the following materials; alkalis, acids, cyanides, reducing agents, oxidizing materials and aluminium. Do not use containers made of Carbon steel. Keep separate from food, feeds, fertilizers, and other sensitive materials.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Full face visor or shield.

Hand protection

Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Wear protective gloves made of the following material: Neoprene. Nitrile, rubber. Polyethylene. Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures

Provide eyewash station. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber
Odour	Slight
Odour threshold	Not available. Not available.
pH pH (concentrated solution):	<2
Melting point	<-5°C
Initial boiling point and range	100 - 102°C @
Flash point	Not applicable.
Freezing Point:	
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Relative density	1.165 - 1.185 @ @ 20°C
Solubility(ies)	Miscible with water.
Partition coefficient log Pow:	< 0
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	10 - 25 cSt @ 25°C
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with alkalis and generates heat.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong reducing agents.

10.6. Hazardous decomposition products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Supplemental Toxicological Information

Acute toxicity oral (LD₅₀ mg/kg) 3,874.0

Species Rat

ATE oral (mg/kg) 6,250.0

Skin sensitisation

Guinea pig maximization test (GPMT) -

Guinea pig: Not sensitising.

Inhalation

The product contains a sensitising substance.

Ingestion May cause respiratory system irritation.

May cause discomfort if swallowed.

May cause stomach pain or vomiting.

Skin contact Irritating to skin. Not a skin sensitiser.

Eye contact Irritating to eyes.

Route of entry Skin and/or eye contact Inhalation Ingestion.

SECTION 12: Ecological information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish

LC50, 96 hours: > 100 mg/l,

LC₅₀, 96 hours: >1000 mg/l, Algae

Acute toxicity - aquatic invertebrates

LC50, 96 hours: 2160 mg/l, Cragon cragon (Brown Shrimp)

Acute toxicity - aquatic plants

IC₅₀, 72 hours: > 350 mg/l, Marine water algae

IC₅₀, 72 hours: >350 mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability Inherently biodegradable

Chemical oxygen demand ~ 548 g O₂/l

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: < 0

12.4. Mobility in soil

The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods

Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

SECTION 14: Transport Information

14.1. UN-number

UN Nr. (ADR/ RID/ IMDG/ ICAO) 3265

14.2. UN proper shipping name

Proper shipping name
(ADR/ RID/ IMDG/ ICAO) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(contains maleic acid copolymer)

14.3. Transport hazard class

ADR/RID class 8
IMDG class 8
ICAO class/division 8

Transport labels



14.4. Packing group

ADR/RID Packing group III
IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally hazardous substance/ marine pollutant
No

14.6. Special precaution for user

IMDG-Code Segregation group 1. Acids
EmS F-A,S-B
Emergency Action Code 2X
Tunnel restriction code (E)

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

ADR-Classification Code C3

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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 (as amended).

15.2. Chemical safety assessment

Polymeric materials are exempt under Article II of REACH (EC No 1907/2006). Currently Chemical Safety Assessments or Exposure Scenarios are not required.

Inventories**EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

All the ingredients are listed or exempt.

Japan - MITI

All the ingredients are listed or exempt.

JAPAN- IHSL**Korea - KECI**

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

The following ingredients are listed:

MALEIC ACID

Taiwan -TCSI

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SECTION 16: Other information

General information

Classified as corrosive class 8 for transportation on the basis of its effect on mild steel and/or aluminium. For advice on chemical emergencies, spillages, fires or first aid in relation to this product please contact the relevant emergency number.

Risk phrases in full

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

Hazard statements in full

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

NSF Non Food Program Non-food Compounds Program Listed G5, G7 # 133187

For safety reasons it is **IMPERATIVE** that customers:-

1. Ensure that all those within their control who use the products are supplied with all relevant information contained within the Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions and warnings contained therein.
2. Consult API before using or supplying the product for any other applications. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Issuing MSDS: Technical Customer Service

Contact: Mr. Pohlen – Mr. Hofstötter - Mr. Tauber