

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

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

### 1.1. Product identifier

Product Code(s) DRE-C14729000

Product Name Maleic anhydride

Form Not applicable

*NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II*

EC No (EU Index No) 203-571-6

CAS No 108-31-6

Chemical name maleic anhydride

Pure substance/mixture Substance

Formula  $C_4H_2O_3$

Molecular weight 98.06

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

Recommended use Laboratory use

Uses advised against No information available

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

#### Supplier

Will be updated as per company.

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## 1.4. Emergency telephone number

Emergency Telephone

Will be updated as per company.

Emergency Telephone - \$45 - (EC)1272/2008	
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Inhalation (Dusts/Mists)	Category 2 - (H330)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1A - (H317)
Specific target organ toxicity — repeated exposure	Category 1 - (H372)

# Will be updated as per company.

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## 2.2. Label elements

Contains maleic anhydride



**Signal word**  
Danger

### Hazard statements

H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H330 - Fatal if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H372 - Causes damage to organs through prolonged or repeated exposure  
EUH071 - Corrosive to the respiratory tract

### Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P280 - Wear protective gloves/protective clothing and eye/face protection  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## 2.3. Other hazards

Harmful to aquatic life.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances
maleic anhydride	-	-

## SECTION 3: Composition/information on ingredients

# Will be updated as per company.

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## 3.1 Substances

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
maleic anhydride 108-31-6	100	-	203-571-6	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) STOT RE 1 (H372) (EUH071)	Skin Sens. 1A :: C $\geq$ 0.001%		

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

### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
maleic anhydride 108-31-6	235	2620	0.16	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq$ 0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Get immediate medical advice/attention. May cause allergic respiratory reaction. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

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<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
<b>Skin contact</b>	May cause an allergic skin reaction. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. May produce an allergic reaction.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

<b>Symptoms</b>	Burning sensation. Coughing and/ or wheezing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Itching. Rashes. Hives. Difficulty in breathing.
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## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	May cause sensitisation in susceptible persons. Treat symptomatically. Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitisation by inhalation and skin contact. May cause sensitisation by skin contact. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and
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vapours.

## 5.3. Advice for firefighters

### Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust. Attention! Corrosive material.

#### Other information

Refer to protective measures listed in Sections 7 and 8.

#### For emergency responders

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

#### Reference to other sections

See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Provide extract ventilation to points where emissions occur. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Do not breathe dust. Avoid generation of

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dust. Handle product only in closed system or provide appropriate exhaust ventilation.

### General hygiene considerations

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions#

Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store away from other materials. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
maleic anhydride 108-31-6	-	TWA: 0.1 ppm TWA: 0.4 mg/m <sup>3</sup> STEL 0.2 ppm STEL 0.8 mg/m <sup>3</sup> Respiratory sensitizer Skin sensitizer	TWA: 0.0025 ppm TWA: 0.01 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>	TWA: 0.41 mg/m <sup>3</sup> TWA: 0.1 ppm STEL: 0.2 ppm STEL: 0.8 mg/m <sup>3</sup> Skin Sensitisation Respiratory Sensitisation
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
maleic anhydride 108-31-6	-	TWA: 1 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup> Sensitizer	TWA: 0.1 ppm TWA: 0.4 mg/m <sup>3</sup>	TWA: 0.3 ppm TWA: 1.2 mg/m <sup>3</sup> STEL: 0.6 ppm STEL: 2.5 mg/m <sup>3</sup>	TWA: 0.1 ppm TWA: 0.41 mg/m <sup>3</sup> Ceiling: 0.2 ppm Ceiling: 0.81 mg/m <sup>3</sup>
Chemical name	France	Germany	Germany MAK	Greece	Hungary
maleic anhydride 108-31-6	STEL: 1 mg/m <sup>3</sup> Sensitizer	TWA: 0.02 ppm TWA: 0.081 mg/m <sup>3</sup>	TWA: 0.02 ppm TWA: 0.081 mg/m <sup>3</sup> Peak: 0.02 ppm Peak: 0.081 mg/m <sup>3</sup>	TWA: 0.25 ppm TWA: 1 mg/m <sup>3</sup>	TWA: 0.08 mg/m <sup>3</sup> STEL: 0.4 mg/m <sup>3</sup>

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			respiratory and skin sensitizer		
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
maleic anhydride 108-31-6	TWA: 0.01 ppm STEL: 0.03 ppm Sensitizer	-	TWA: 0.0025 ppm TWA: 0.01 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	Sensitizer TWA: 0.3 ppm TWA: 1.2 mg/m <sup>3</sup> STEL: 0.6 ppm STEL: 2.5 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
maleic anhydride 108-31-6	-	-	-	TWA: 0.2 ppm TWA: 0.8 mg/m <sup>3</sup> STEL: 0.6 ppm STEL: 2.4 mg/m <sup>3</sup>	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup> *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
maleic anhydride 108-31-6	TWA: 0.01 mg/m <sup>3</sup> Sensitizer	TWA: 0.25 ppm TWA: 1 mg/m <sup>3</sup> STEL: 0.75 ppm STEL: 3 mg/m <sup>3</sup>	TWA: 0.1 ppm TWA: 0.41 mg/m <sup>3</sup> Sensitizer	TWA: 0.1 ppm TWA: 0.41 mg/m <sup>3</sup> STEL: STEL ppm STEL: STEL mg/m <sup>3</sup>	TWA: 0.1 ppm TWA: 0.4 mg/m <sup>3</sup> sensitizer
Chemical name	Sweden		Switzerland		United Kingdom
maleic anhydride 108-31-6	NGV: 0.05 ppm NGV: 0.2 mg/m <sup>3</sup> Bindande KGV: 0.1 ppm Bindande KGV: 0.4 mg/m <sup>3</sup> Sensitizer		TWA: 0.1 ppm TWA: 0.4 mg/m <sup>3</sup> STEL: 0.1 ppm STEL: 0.4 mg/m <sup>3</sup>		TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup> Sen+

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)**  
**Predicted No Effect Concentration (PNEC)**

No information available.  
No information available.

### 8.2. Exposure controls

#### Personal protective equipment

##### Eye/face protection

Tight sealing safety goggles. Face protection shield. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

##### Hand protection

Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves.

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<b>Skin and body protection</b>	Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General hygiene considerations</b>	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.
<b>Environmental exposure controls</b>	Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Solid
Colour	white
Odour	No information available.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	53 °C	None known
Initial boiling point and boiling range	202 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	7.1 %vol ; 290 g/m <sup>3</sup>	
Lower flammability or explosive limits	1.4 %vol ; 57 g/m <sup>3</sup>	
Flash point	103 °C	None known
Autoignition temperature	380 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	1.6 mPa s	@ 60 °C
Water solubility	407 g/l	@ 20 °C
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	1.33 hPa	@ 44 °C
Relative density	1.48	@ 20 °C
Bulk density	No data available	

<b>Liquid Density</b>	No data available	
<b>Relative vapour density</b>	3.38	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

#### 9.2. Other information

<b>Molecular weight</b>	98.06
<b>Molecular formula</b>	C <sub>4</sub> H <sub>2</sub> O <sub>3</sub>

#### **9.2.1. Information with regards to physical hazard classes**

Not applicable

#### **9.2.2. Other safety characteristics**

No information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

<b>Reactivity</b>	No information available.
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### 10.2. Chemical stability

<b>Stability</b>	Stable under normal conditions.
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#### **Explosion data**

<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.

### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	None under normal processing.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Exposure to air or moisture over prolonged periods. Excessive heat.
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### 10.5. Incompatible materials

<b>Incompatible materials</b>	Oxidising agent. Acids. Bases.
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**Hazardous decomposition products** None known based on information supplied.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Information on likely routes of exposure

#### Product Information

Inhalation	Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Specific test data for the substance or mixture is not available. (based on components). May cause sensitisation in susceptible persons. Fatal if inhaled.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitisation by skin contact.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. May cause additional affects as listed under "Inhalation". Toxic if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Itching. Rashes. Hives. Difficulty in breathing.
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### Numerical measures of toxicity

#### Acute toxicity

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
maleic anhydride	= 235 mg/kg ( Rat )	= 2620 mg/kg ( Rabbit )	= 0.16 mg/L ( Rat ) 4 h

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#### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.
<b>Respiratory or skin sensitisation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.  H372 - Causes damage to the following organs through prolonged or repeated exposure if inhaled: respiratory system; inhalation.
<b>Aspiration hazard</b>	No information available.

#### **11.2. Information on other hazards**

##### **11.2.1. Endocrine disrupting properties**

<b>Endocrine disrupting properties</b>	No information available.
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##### **11.2.2. Other information**

<b>Other adverse effects</b>	No information available.
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## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
maleic anhydride	EC50: =29mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: =75mg/L (96h, <i>Oncorhynchus mykiss</i> )	-	-

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
maleic anhydride	The substance is not PBT / vPvB PBT assessment does not apply

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

14.1 UN number or ID number	UN2215
14.2 UN proper shipping name	Maleic anhydride
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2215, Maleic anhydride, 8, III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A803
ERG Code	8L

### IMDG

14.1 UN number or ID number	UN2215
14.2 UN proper shipping name	Maleic anhydride
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2215, Maleic anhydride, 8, III, Marine pollutant
14.5 Marine pollutant	P
Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
EmS-No	F-A, S-B No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

### RID

14.1 UN number or ID number	UN2215
14.2 UN proper shipping name	Maleic anhydride
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2215, Maleic anhydride, 8, III, Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
Classification code	C4

### ADR

14.1 UN number or ID number	UN2215
14.2 UN proper shipping name	Maleic anhydride
14.3 Transport hazard class(es)	8

14.4 Packing group	III
Description	UN2215, Maleic anhydride, 8, III, (E), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
Classification code	C3
Tunnel restriction code	(E)

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
maleic anhydride 108-31-6	RG 66	-

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

##### Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of

December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

#### Persistent Organic Pollutants

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### International Inventories

TSCA	Complies
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

#### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

EUH071 - Corrosive to the respiratory tract  
H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H330 - Fatal if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H372 - Causes damage to organs through prolonged or repeated exposure

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method

Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

Revision date N/A

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

#### Disclaimer

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#### Disclaimer

The Final Document will be available at the time of consignment.

# Can vary as per company.

**End of Safety Data Sheet**