

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/15/2023




Version-No. 5

Reviewed on 08/15/2023

1 Identification

- **1.1. Product identifier**
- Trade name / Article No: **KLEIBERIT 753.5**
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional users only.
- **Application of the substance / the mixture** Adhesives
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KLEIBERIT SE & Co. KG
Max-Becker-Str. 4
76356 Weingarten
Germany
- **Information department:**
e-mail: hse@kleiberit.com
- KLEIBERIT Adhesives Canada, Inc.
45 Sheppard Avenue East, Suite 900
Toronto, Ontario M2N 5W9
Canada
- Phone 1-704-843-3339
FAX 1-704-843-4930
- **1.4. Emergency telephone number:**
+1 800 579 7421 Canada (English, French)
+1 215 207 0061 Americas regional number (English, Spanish, Portuguese)

2 Hazard identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.
- **2.2. Label elements**
- **Hazard pictograms**
- 
- GHS07
- **Signal word** Warning
- **Hazard-determining components of labeling:**
maleic anhydride
- **Hazard statements**
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P280 Wear protective gloves / eye 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.
- **NFPA-ratings (scale 0 - 4) - USA:**
-  Health = 0
Fire = 1
Reactivity = 0
- **HMIS-ratings (scale 0 - 4) - USA:**
-  HEALTH 0 Health = 0
FIRE 1 Fire = 1
REACTIVITY 0 Reactivity = 0

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- **WHMIS Classes, Divisions and Subdivisions - Canada** Not restricted
- **Class D - Poisonous and Infectious Materials**
Division 2 - Materials Causing Other Toxic Effects
Subdivision B - Toxic Materials
- **2.3. Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/Information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**

Registry-No's	Identification / Classification GHS-CLP	%
CAS: 108-31-6	maleic anhydride	≥0.001-<0.1% w/w *
RTECS: ON 3675000	Sensitization - Respiratory 1, H334; Specific Target Organ Toxicity - Repeated Exposure 1, H372; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Sensitization - Skin 1A, H317 Specific concentration limit: Skin Sensitizer - Category 1A; H317: C ≥ 0.001 %	

* Actual concentration ranges are withheld as a trade secret.

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **4.1. Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **4.2. Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3. Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **5.1. Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
- **Flash point :** See Pos. 9
- **5.2. Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3. Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.

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- **6.2. Environmental precautions:** No special measures required.
- **6.3. Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4. Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **7.1. Precautions for safe handling** Prevent formation of dust.
- **Information about protection against explosions and fires:**
 - Dust can combine with air to form an explosive mixture.
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.
- **Information about storage in one common storage facility:** Observe the national regulations.
- **Further information about storage conditions:** None.
- **7.3. Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

- **8.1. Control parameters**
- **Additional information about design of technical systems:** No further data; see section 7.
- **Components with limit values that require monitoring at the workplace:**

CAS No.	Designation of material	%	Type	Value	Unit
108-31-6 maleic anhydride					
EL (USA)	TWA: 0.1 ppm				
	S(D), S(R)				
EV (USA)	TWA: 0.1 ppm				
PEL (USA)	TWA: 1 mg/m ³ , 0.25 ppm				
REL (USA)	TWA: 1 mg/m ³ , 0.25 ppm				
TLV (USA)	TWA: 0.01* mg/m ³				
	DSEN, RSEN;*inh. fraction + vapor, A4				

108-31-6 maleic anhydride

EL (USA) TWA: 0.1 ppm
S(D), S(R)

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PEL (USA) TWA: 1 mg/m³, 0.25 ppm

REL (USA) TWA: 1 mg/m³, 0.25 ppm

TLV (USA) TWA: 0.01* mg/m³

DSEN, RSEN;*inh. fraction + vapor, A4

8.2. Exposure controls

limit the exposure to:

8 hours

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves

Heat resistant gloves

Material of gloves

A Nitrile rubber - NBR: AlphaTec® (Lamination strength not applicable)

Leather gloves

Eye protection:

Safety glasses

Body protection:

Protective work clothing

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9 Physical and chemical properties

· 9.1. Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid

Color: Yellowish

· Odor: Weak, characteristic

· Odor threshold: Not determined.

· pH-value: Mixture is non-soluble (in water).

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash Point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Ignition Temperature: Not applicable.

· Decomposition Temperature: Not determined.

· Auto Igniting: Product is not selfigniting.

· Danger of Explosion: Product does not present an explosion hazard.

· Explosion Limits:

Lower: Not determined.

Upper: Not determined.

· Vapor Pressure: Not applicable.

· Density at 20 °C (68 °F): ca. 1.2 g/cm³ (ca. 10.01 lbs/gal)

· Relative Density: Not determined.

· Vapour Density: Not applicable.

· Evaporation Rate: Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity: At room temperature: not applicable

· Dynamic: Not applicable.

· Kinematic: Not applicable.

· 9.2. Other information: No further relevant information available.

10 Stability and reactivity

· 10.1. Reactivity

see item 10.3

No further relevant information available.

· 10.2. Chemical stability: Stable when stored and used properly.

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3. Possibility of hazardous reactions: No dangerous reactions known.

· 10.4. Conditions to avoid: No further relevant information available.

· 10.5. Incompatible materials: No further relevant information available.

· 10.6. Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- **11.1. Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
 - 108-31-6 maleic anhydride**
 - Oral LD₅₀ 1,090 mg/kg (rat)
 - Dermal LD₅₀ 2,620 mg/kg (rabbit)
- **Primary irritant effect:**
 - **on the skin:** Based on available data, the classification criteria are not met.
 - **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:**
 - May cause an allergic skin reaction.
- **Additional toxicological information:**
 - **Carcinogenic categories**
 - **IARC (International Agency for Research on Cancer)**
 - Polypropylenwachs: 3
 - vinyl acetate: 2B
 - **NTP (National Toxicology Program)**
 - None of the ingredients is listed.
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **Specific target organ toxicity - single exposure**
 - Based on available data, the classification criteria are not met.
 - **Specific target organ toxicity - repeated exposure**
 - Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological information

- **12.1. Toxicity**
- **Aquatic toxicity:**
 - 108-31-6 maleic anhydride**
 - LC₅₀ 75 mg / l / 96h (Fathead minnow - Pimephales promelas)
 - EC₅₀ 42.81 mg / l / 48h (water flea - daphnia)
 - EC₅₀ 74.32 mg / l / 72h (green algae - Desmodesmus subspicatus)
- **12.2. Persistence and degradability** No further relevant information available.
- **12.3. Bioaccumulative potential** No further relevant information available.
- **12.4. Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:** Not known to be hazardous to water.
- **12.5. Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1. Waste treatment methods**
- **Recommendation:**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **VOC - 2010/75/EU [%]:** 0.01 %
- **US (40CFR part59): VOC content [g / L]** 0.0 g/l / 0.00 lb/gal
- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.

- **Department issuing SDS:** Safety & Environment

- **Abbreviations and acronyms:**

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

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