



Safety Data Sheet

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LOCTITE 496

SDS No. : 153541

V001.10

Revision: 03.01.2018

printing date: 18.12.2019

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE 496

Other means of identification: LOCTITE 496 BO20G EGFD

Product code: IDH488249

Recommended use of the chemical and restrictions on use

Intended use: Adhesive

Identification of manufacturer, importer or distributor

Importer: Henkel Malaysia Sdn Bhd 46th Floor, Menara TM, Jalan Pantai Baharu, 59200 Kuala Lumpur, Malaysia. Phone :+ 603 22461000 Fax : + 60322461188

E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency information: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> | <u>Target organ</u> |
|--|------------------------|------------------------------|
| Skin corrosion/irritation | Category 2 | |
| Serious eye damage/eye irritation | Category 2 | |
| Specific target organ toxicity - single exposure | Category 3 | respiratory tract irritation |

GHS label elements:

Hazard pictogram:



Signal word:

Warning

Hazard statement: H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precaution:

Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

| Hazard component CAS-No. | Content | GHS Classification |
|--------------------------|-----------|---|
| Mecrilate 137-05-3 | 60- 100 % | Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2 H319 Specific target organ toxicity - single exposure 3 H335 |
| Hydroquinone 123-31-9 | < 0.1 % | Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1 H317 Germ cell mutagenicity 2 H341 Carcinogenicity 2 H351 Acute hazards to the aquatic environment 1 H400 |

Section 4. First aid measures

| | |
|----------------------|--|
| Inhalation: | Move to fresh air, consult doctor if complaint persists. |
| Skin contact: | Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. |
| Eye contact: | If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage. |
| Ingestion: | Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours). |

Section 5. Fire fighting measures

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| Suitable extinguishing media: | Foam, extinguishing powder, carbon dioxide. Fine water spray |
| Specific hazards arising from the chemical: | In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO ₂) can be released. In case of fire, keep containers cool with water spray. |
| Special protection equipment and precautions for firefighters: | Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). |
| Hazardous combustion products: | Oxides of carbon, oxides of nitrogen, irritating organic vapors. |

Section 6. Accidental release measures

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|-----------------------------------|---|
| Personal precautions: | Ensure adequate ventilation. |
| Environmental precautions: | Do not let product enter drains. |
| Clean-up methods: | Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste. |

Section 7. Handling and storage

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| Handling: | Ventilation (low level) is recommended when using large volumes Use of dispensing equipment is recommended to minimise the risk of skin or eye contact |
| Storage: | For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F) |

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

| | | |
|--------------------------|-------------------------|------------------------------|
| HYDROQUINONE 123-31-9 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 1 |
| | Remarks | ACGIH |
| HYDROQUINONE 123-31-9 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 2 |
| | Remarks | MY OEL |

Respiratory protection: Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

Hand protection: Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Polyethylene or polypropylene gloves are recommended when using large volumes.
Do not use PVC, rubber or nylon gloves.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Eye protection: Wear protective glasses.
Protective eye equipment should conform to EN166.

Body protection: Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls: Ensure good ventilation/extraction.

Hygienic measures: Good industrial hygiene practices should be observed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

Section 9. Physical and chemical properties

Appearance: Colorless
liquid
Odor: Irritating
Odor threshold (CA): No data available.
pH: No data available.
Melting point / freezing point: No data available.

| | |
|-----------------------------------|-------------------------------|
| Specific gravity: | 1.09 |
| Boiling point: | > 149.0 °C (> 300.2 °F) |
| Flash point: | 80.0 - 93 °C (176 - 199.4 °F) |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Lower explosive limit: | No data available. |
| Upper explosive limit: | No data available. |
| Vapor pressure: | < 0.3000000 mbar |
| (no method; 50 °C (122 °F)) | < 700 mbar |

| | |
|--|--------------------------|
| Vapor density: | No data available. |
| Density: | 1.0900 g/cm ³ |
| Solubility: | No data available. |
| Partition coefficient: n-octanol/water: | No data available. |
| Auto ignition: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |

| | |
|---------------------|----------|
| VOC content: | < 3.00 % |
| (2010/75/EC) | |

Section 10. Stability and reactivity

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|---|--|
| Reactivity/Incompatible materials: | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. |
| Chemical stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | Stable under normal conditions of storage and use. |
| Hazardous decomposition products: | None if used for intended purpose. |

Section 11. Toxicological information

| | |
|---------------------------|--|
| Symptoms of Overexposure: | EYE: Irritation, conjunctivitis. SKIN: Redness, inflammation. RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness. |
|---------------------------|--|

Acute oral toxicity:

| | | |
|--------------------------|------------|--|
| Mecrilate 137-05-3 | Value type | LD50 |
| | Value | > 4,440 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 423 (Acute Oral toxicity) |
| Hydroquinone 123-31-9 | Value type | LD50 |
| | Value | 367 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal toxicity:

| | | |
|-----------------------|------------|--|
| Mecrilate 137-05-3 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| | | |
|-----------------------|---------------|---------------|
| Mecrilate 137-05-3 | Result | irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | not specified |

Serious eye damage/irritation:

| | | |
|-----------------------|---------------|---------------|
| Mecrilate 137-05-3 | Result | irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | not specified |

Respiratory or skin sensitization:

| | | |
|--------------------------|-----------|------------------------------|
| Mecrilate 137-05-3 | Result | not sensitising |
| | Test type | |
| | Species | guinea pig |
| | Method | not specified |
| Hydroquinone 123-31-9 | Result | sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | not specified |

Germ cell mutagenicity:

| | | |
|--------------------------|---|--|
| Hydroquinone 123-31-9 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | EU Method B.13/14 (Mutagenicity) |

Repeated dose toxicity:

| | | |
|--------------------------|--|--|
| Mecrilate 137-05-3 | Result | NOAEL=> 200 mg/kg |
| | Route of application | oral: feed |
| | Exposure time / Frequency of treatment | 90 ddaily |
| | Species | rat |
| | Method | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Hydroquinone 123-31-9 | Result | NOAEL=>= 250 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 14 days5 days/week. 12 doses |
| | Species | rat |
| | Method | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Hydroquinone 123-31-9 | Result | LOAEL=<= 500 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 14 days5 days/week. 12 doses |
| | Species | rat |
| | Method | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |

Section 12. Ecological information

General ecological information: Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.

Ecotoxicity: Do not empty into drains / surface water / ground water.

Toxicity:

| | | |
|--------------------------|----------------------|--|
| Hydroquinone 123-31-9 | Value type | LC50 |
| | Value | 0.638 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 0.134 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 0.335 mg/l |

| | | |
|--------------------------|----------------------|---|
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroquinone 123-31-9 | Value type | EC 50 |
| | Value | 0.038 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | |
| | Method | not specified |

Persistence and degradability:

| | | |
|--------------------------|----------------------|--|
| Mecrilate 137-05-3 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 0 % |
| | Method | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| Hydroquinone 123-31-9 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 75 - 81 % |
| | Method | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

Bioaccumulative potential / Mobility in soil:

| | | |
|--------------------------|-------------|---------------------------------------|
| Hydroquinone 123-31-9 | LogPow | 0.59 |
| | Temperature | |
| | Method | EU Method A.8 (Partition Coefficient) |

Section 13. Disposal considerations

Product**Method of disposal:**

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.
Dispose of in accordance with local and national regulations.
Contribution of this product to waste is very insignificant in comparison to article in which it is used

Packaging**Disposal of uncleaned packages:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.
Disposal must be made according to official regulations.

Section 14. Transport information

Road transport ADR:

Not dangerous goods

Railroad transport RID:

Not dangerous goods

Inland water transport ADN:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

| | |
|-------------------------------------|---|
| Class: | 9 |
| Packing group: | III |
| Packaging instructions (passenger): | 964 |
| Packaging instructions (cargo): | 964 |
| UN no.: | 3334 |
| Label: | 9 |
| Proper shipping name: | Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) |
| Additional Information: | Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted. |

Section 15. Regulatory information

Regulatory Information: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/213]
Industry Code of Practice on Chemicals Classification and Hazard Communication

Global inventory status:

| Regulatory list | Notification |
|-----------------|--------------|
| TSCA | yes |
| AICS | yes |
| DSL | yes |
| ENCS (JP) | yes |
| KECI (KR) | yes |
| PICCS (PH) | yes |
| IECSC | yes |
| ISHL (JP) | yes |
| NZIOC | yes |

Section 16. Other information

Disclaimer: This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.