Safety Data Sheet

LOCTITE SF 7471 PRIMER known as LOCTITE® 7471™ Primer LOCQUIC®

LOCQUIC®

MSDS-No.: 153556
V001.3
Date of issue: 27.01.2015

<table>
<thead>
<tr>
<th>Section 1. Identification of the substance/preparation and of the company/undertaking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name:</strong> LOCTITE SF 7471 PRIMER known as LOCTITE® 7471™ Primer LOCQUIC®</td>
</tr>
<tr>
<td><strong>Intended use:</strong> Primer, containing solvents</td>
</tr>
<tr>
<td><strong>Supplier:</strong> Henkel AG &amp; Co. KGaA</td>
</tr>
<tr>
<td>Henkelstr. 67</td>
</tr>
<tr>
<td>Düsseldorf, 40589</td>
</tr>
<tr>
<td>Germany</td>
</tr>
<tr>
<td><strong>Phone:</strong> 449 (211) 797 0</td>
</tr>
<tr>
<td><strong>Fax-no.:</strong> 449 (211) 798 4008</td>
</tr>
<tr>
<td><strong>Emergency information:</strong> 24 HOUR EMERGENCY CONTACT NUMBER 03 9724 6556</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 2. Hazards identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification of the substance or mixture</strong></td>
</tr>
<tr>
<td>Hazardous according to the criteria of ASCC.</td>
</tr>
</tbody>
</table>

**GHS Classification:**

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Hazard Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>Category 3</td>
</tr>
<tr>
<td>Chronic hazards to the aquatic environment</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

**Signal word:** Danger
Hazard statement(s):
- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statement(s):
**Prevention:**
- P210 Keep away from heat/sparks/open flames. - No smoking.
- P233 Keep container tightly closed.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/eye protection.
- P261 Avoid breathing vapors, mist, or spray.
- P271 Use only outdoors or in a well-ventilated area.

**Response:**
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use alcohol resistant foam for extinction.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison control center or physician if you feel unwell.

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

**Disposal:**
- P501 Dispose of contents/container in accordance with applicable laws and regulations.

Classification of material:
- F - Highly flammable
- Xi - Irritant

**Risk phrases:**
- R11 Highly flammable.
- R36 Irritating to eyes.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**
- S16 Keep away from sources of ignition - No smoking.
- S23 Do not breathe vapour.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.
- S51 Use only in well-ventilated areas.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Dangerous Goods information:**
Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Signal word:**
HAZARDOUS
General chemical description: Mixture

Identity of ingredients:

<table>
<thead>
<tr>
<th>Chemical ingredients</th>
<th>CAS-No.</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>&gt; 60%</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>2,2'-(4-methylphenyl)imino)bisethanol</td>
<td>3077-12-1</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Benzothiazole-2-thiol</td>
<td>149-30-4</td>
<td>&lt; 1 %</td>
</tr>
</tbody>
</table>

Section 4. First aid measures

Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Rinse with running water and soap.
Remove contaminated clothing and footwear.
Seek medical advice.

Eyes: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Section 5. Fire fighting measures

Suitable extinguishing media: Alcohol-resistant foam.

Improper extinguishing media: Water jet (solvent-containing product).

Combustion behaviour: Solvent containing flammable product. In case of fire toxic gases are released.

Decomposition products in case of fire:: Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Particular danger in case of fire:: Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

Hazchem code: 3YE

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.
Ensure adequate ventilation.
See advice in section 8.

Environmental precautions: Do not let product enter drains.
Clean-up methods: Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams and groundwater with spilled material or used absorbent.

Section 7. Handling and storage

Precautions for safe handling: Use only in well-ventilated areas. Vapours should be extracted to avoid inhalation. Keep away from sources of ignition - no smoking. Avoid contact with eyes, skin and clothing.

Conditions for safe storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Section 8. Exposure controls / personal protection

National exposure standards:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>form of exposure</th>
<th>TWA (ppm)</th>
<th>TWA (mg/m3)</th>
<th>Peak Limit. (ppm)</th>
<th>Peak Limit. (mg/m3)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE 67-64-1</td>
<td></td>
<td>500</td>
<td>1.185</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACETONE 67-64-1</td>
<td>-</td>
<td>-</td>
<td>1.000</td>
<td>2.375</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL 67-63-0</td>
<td></td>
<td>400</td>
<td>983</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL 67-63-0</td>
<td>-</td>
<td>-</td>
<td>500</td>
<td>1.230</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing. 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. Solvent resistant gloves such as Viton, poly (vinyl alcohol), or equivalent is recommended.

Respiratory protection: Use only in well-ventilated areas. If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: Amber to yellowish Liquid
Odor: Acetone
Specific gravity: 0.7953
Flash point: -8 °C (17.6 °F) Estimated
Density: 0.795 g/cm³
VOC content: 99 %

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid:
- Avoid excessive heat and ignition sources.
- Avoid static discharge.

Incompatible materials:
- Reaction with strong acids.
- Reacts with strong oxidants.

Hazardous decomposition products:
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Section 11. Toxicological information
Health Effects:
Ingestion: Ingestion may affect the digestive tract, respiratory and cardiovascular systems, and the liver and kidneys.

Skin: Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis.

Eyes: Vapors may irritate eyes. Contact with eyes will cause irritation.

Inhalation: May cause respiratory tract irritation. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

Acute toxicity:

<table>
<thead>
<tr>
<th>Hazardous components CAS-No.</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>LD50</td>
<td>5,800 mg/kg</td>
<td>oral</td>
<td>4 h</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>76 mg/l</td>
<td>inhalation</td>
<td></td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>&gt; 15,688 mg/kg</td>
<td>dermal</td>
<td></td>
<td>rabbit</td>
<td></td>
</tr>
<tr>
<td>Propan-2-ol 67-63-0</td>
<td>LD50</td>
<td>5,338 mg/kg</td>
<td>oral</td>
<td>4 h</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>72.6 mg/l</td>
<td>inhalation</td>
<td></td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>12,870 mg/kg</td>
<td>dermal</td>
<td></td>
<td>rabbit</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation:

<table>
<thead>
<tr>
<th>Hazardous components CAS-No.</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol 67-63-0</td>
<td>slightly irritating</td>
<td>4 h</td>
<td>rabbit</td>
<td>OECD Guideline 404 (Acute Dermal Irritation / Corrosion)</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation:

<table>
<thead>
<tr>
<th>Hazardous components CAS-No.</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>irritating</td>
<td></td>
<td>rabbit</td>
<td>OECD Guideline 405 (Acute Eye Irritation / Corrosion)</td>
</tr>
<tr>
<td>Propan-2-ol 67-63-0</td>
<td>moderately irritating</td>
<td></td>
<td>rabbit</td>
<td>OECD Guideline 405 (Acute Eye Irritation / Corrosion)</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization:

<table>
<thead>
<tr>
<th>Hazardous components CAS-No.</th>
<th>Result</th>
<th>Test type</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol 67-63-0</td>
<td>not sensitising</td>
<td>Buehler test</td>
<td>guinea pig</td>
<td></td>
</tr>
<tr>
<td>Benzothiazole-2-thiol 149-30-4</td>
<td>sensitising</td>
<td>Buehler test</td>
<td>guinea pig</td>
<td>OECD Guideline 406 (Skin Sensitisation)</td>
</tr>
<tr>
<td>Benzothiazole-2-thiol 149-30-4</td>
<td>sensitising</td>
<td>Guinea pig maximisation test</td>
<td>guinea pig</td>
<td>OECD Guideline 406 (Skin Sensitisation)</td>
</tr>
</tbody>
</table>

Germ cell mutagenicity:

<table>
<thead>
<tr>
<th>Hazardous components CAS-No.</th>
<th>Result</th>
<th>Type of study / Route of administration</th>
<th>Metabolic activation / Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone 67-64-1</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g Ames test)</td>
<td>with and without</td>
<td></td>
<td>OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
</tr>
<tr>
<td>Propan-2-ol 67-63-0</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g Ames test)</td>
<td>with and without</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzothiazole-2-thiol 149-30-4</td>
<td>negative</td>
<td>intraperitoneal</td>
<td>mouse</td>
<td>Micronucleus assay</td>
<td></td>
</tr>
</tbody>
</table>

Section 12. Ecological information
General ecological information: Do not empty into drains / surface water / ground water., May cause long-term adverse effects in the aquatic environment.

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations. Can be incinerated, when in compliance with local regulations. Collection and delivery to recycling enterprise or other registered elimination institution.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.: 1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Class or division: 3
Packing group: II
Hazchem code: YE

Marine transport IMDG:

UN no.: 1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Class or division: 3
Packing group: II
EmS: F-E .S-E
Seawater pollutant: -

Air transport IATA:

UN no.: 1993
Proper shipping name: Flammable liquid, n.o.s. (Acetone, Isopropanol)
Class or division: 3
Packing group: II
Packing instructions (passenger) 353
Packing instructions (cargo) 364

Section 15. Regulatory information

SUSMP Poisons Schedule None

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).
### Section 16. Other information

| Abbreviations/acronyms:                  | ADGC - Australian Dangerous Goods Code  |
|                                        | ASCC - Australian Safety and Compensation Council |
|                                        | SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons |
|                                        | STEL - Short term exposure limit |
|                                        | TWA - Time weighted average |

**Reason for issue:** Reviewed MSDS. Reissued with new date. involved chapters: 2

**Date of previous issue:** 04.12.2013

**Disclaimer:**

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