



## Safety Data Sheet

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LOCTITE MSC 01 known as MULTICORE SC-01 CLEANER 20L

SDS No. : 153931

V001.7

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

**Product name:** LOCTITE MSC 01 known as MULTICORE SC-01 CLEANER 20L

**Other means of identification:** LOCTITE MSC 01 20L

**Product code:** IDH322412

**Recommended use of the chemical and restrictions on use**

**Intended use:** Solvent cleaner

**Identification of manufacturer, importer or distributor**

**Importer:** Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598

Phone : +65 62660100 Fax : +65 62661161

**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>
Flammable liquids	Category 3	
Serious eye damage/eye irritation	Category 2	
Specific target organ toxicity - single exposure	Category 3	Central Nervous System

**GHS label elements:**

**Hazard pictogram:**



**Signal word:**

Warning

**Hazard statement:** H226 Flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Precaution:**

**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
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.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.

**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
Propanol, 1(or 2)-ethoxy- 52125-53-8	60- 100 %	Flammable liquids 3 H226 Serious eye damage/eye irritation 2 H319 Target Organ Systemic Toxicant - Single exposure 3 H336
1-Ethoxypropan-2-ol 1569-02-4	1- 10 %	Flammable liquids 3 H226 Serious eye damage/eye irritation 2 H319 Target Organ Systemic Toxicant - Single exposure 3 H336

#### Section 4. First aid measures

<b>Inhalation:</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin contact:</b>	Rinse with running water and soap. Obtain medical attention if irritation persists.
<b>Eye contact:</b>	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
<b>Ingestion:</b>	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
<b>Indication of immediate medical attention and special treatment needed:</b>	See section: Description of first aid measures

#### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Alcohol-resistant foam. Carbon dioxide, foam, powder
<b>Improper extinguishing media:</b>	High pressure waterjet
<b>Specific hazards arising from the chemical:</b>	In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> ) can be released. Can form explosive gas/air mixtures.
<b>Special protection equipment and precautions for firefighters:</b>	Wear self-contained breathing apparatus. In case of fire, keep containers cool with water spray.
<b>Hazardous combustion products:</b>	Irritating vapors.

#### Section 6. Accidental release measures

<b>Personal precautions:</b>	Avoid contact with skin and eyes. Wear protective equipment. Remove sources of ignition.
<b>Environmental precautions:</b>	Do not let product enter drains. Prevent further leakage or spillage if safe to do so.
<b>Clean-up methods:</b>	Remove all sources of ignition. For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

#### Section 7. Handling and storage

<b>Handling:</b>	Use only in well-ventilated areas. Remove all sources of ignition. Wear suitable protective clothing, safety glasses and gloves. Wash hands before breaks and immediately after handling the product. Avoid skin and eye contact. See advice in section 8
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**Storage:** Store in a cool, well-ventilated place.  
Keep away from sources of ignition.

## Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

**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;  $\geq$  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;  $\geq$  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.

**Eye protection:** Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.  
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. After handling solder wash hands with soap and water before eating, drinking or smoking. Do not eat, drink or smoke while working.

## Section 9. Physical and chemical properties

**Appearance:** colourless  
liquid  
**Odor:** Slight  
**Odor threshold (CA):** No data available.  
**pH:** Not determined  
**Melting point / freezing point:** Not determined  
**Specific gravity:** 0.897  
**Boiling point:** 130 - 133 °C (266 - 271.4 °F)  
**Flash point:** 40 °C (104 °F)

<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	1.3 %(V)
<b>Upper explosive limit:</b>	12 %(V)
<b>Vapor pressure:</b> (; 25 °C (77 °F))	1.09 kPa
<b>Vapor density:</b>	Heavier than air
<b>Density:</b>	No data available.
<b>Solubility:</b>	No data available.
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto ignition:</b>	288 °C
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>VOC content:</b>	No data available.

### Section 10. Stability and reactivity

<b>Reactivity/Incompatible materials:</b>	Reaction with strong oxidants.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition.
<b>Hazardous decomposition products:</b>	Hydrocarbons carbon oxides.

### Section 11. Toxicological information

<b>Symptoms of Overexposure:</b>	Vapors may cause drowsiness and dizziness. Prolonged or repeated contact may cause skin irritation.
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#### Acute oral toxicity:

Propanol, 1(or 2)-ethoxy- 52125-53-8	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified

#### Acute dermal toxicity:

Propanol, 1(or 2)-ethoxy- 52125-53-8	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	not specified

#### Serious eye damage/irritation:

1-Ethoxypropan-2-ol 1569-02-4	Result	Category II
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

### Section 12. Ecological information

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

**Toxicity:**

Propanol, 1(or 2)-ethoxy- 52125-53-8	Value type	LC50
	Value	> 5 mg/l
	Acute Toxicity Study	Fish
	Exposure time	24 h
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
Propanol, 1(or 2)-ethoxy- 52125-53-8	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	EC0
	Value	> 10 mg/l
	Acute Toxicity Study	Algae
	Exposure time	
Propanol, 1(or 2)-ethoxy- 52125-53-8	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	4,600 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	
	Species	
	Method	not specified

**Persistence and degradability:**

Propanol, 1(or 2)-ethoxy- 52125-53-8	Result	readily biodegradable
	Route of application	
	Degradability	67 - 79 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1-Ethoxypropan-2-ol 1569-02-4	Result	readily biodegradable
	Route of application	aerobic
	Degradability	98 - 100 %
	Method	EU Method C.4-B (Determination of the "Ready" Biodegradability Modified OECD Screening Test)

**Section 13. Disposal considerations**

**Product**

**Method of disposal:** Dispose of in accordance with local and national regulations.  
Incineration under controlled conditions is recommended.

**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.

**Section 14. Transport information**

**Road transport ADR:**

Class: 3  
Packing group: III  
Classification code: F1  
Hazard ident. number: 30  
UN no.: 1987  
Label: 3  
Technical name: ALCOHOLS, N.O.S. (Ethoxypropanol)

**Railroad transport RID:**

Class: 3  
 Packing group: III  
 Classification code: F1  
 Hazard ident. number:  
 UN no.: 1987  
 Label: 3  
 Technical name: ALCOHOLS, N.O.S. (Ethoxypropanol)

**Inland water transport ADN:**

Class: 3  
 Packing group: III  
 Classification code: F1  
 Hazard ident. number:  
 UN no.: 1987  
 Label: 3  
 Technical name: ALCOHOLS, N.O.S. (Ethoxypropanol)

**Marine transport IMDG:**

Class: 3  
 Packing group: III  
 UN no.: 1987  
 Label: 3  
 EmS: F-E ,S-D  
 Seawater pollutant: -  
 Proper shipping name: ALCOHOLS, N.O.S. (Ethoxypropanol)

**Air transport IATA:**

Class: 3  
 Packing group: III  
 Packaging instructions (passenger): 355  
 Packaging instructions (cargo): 366  
 UN no.: 1987  
 Label: 3  
 Proper shipping name: Alcohols, n.o.s. (Ethoxypropanol)

**Section 15. Regulatory information**

**Regulatory Information:** Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous chemicals and dangerous good Part 1,2,3

**Global inventory status:**

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

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<b>Section 16. Other information</b>
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**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.