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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: DAI-EL LATEX GLP-103SR****Article number: GLP103SR STD****1.2 Relevant identified uses of the substance or mixture and uses advised against:****Sector of Use SU8 Manufacture of bulk, large scale chemicals (including petroleum products)****1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:****DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION:****Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome, Kita-Ku, Osaka, JAPAN****Phone: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281****Further information obtainable from:** <http://www.daikin.com/>**1.4 Emergency telephone number:****Japan: +81-6-6349-7521****China: +86-512-5-232-0949, +86-21-34151689****South Korea: +82-2-568-1722****Americas: +1-256-306-5000****Europe: +49-211-179 225-0****SECTION 2: Hazard identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008****Flam. Liq. 2 H225 Highly flammable liquid and vapour.****Repr. 2 H361d Suspected of damaging the unborn child.****STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.****Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.****Skin Irrit. 2 H315 Causes skin irritation.****Eye Irrit. 2 H319 Causes serious eye irritation.****STOT SE 3 H336 May cause drowsiness or dizziness.****Hazard description:****Xn Harmful****F Highly flammable****2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008:****The product is classified and labelled according to the CLP regulation.****Signal word: Danger****Precautionary statements:****P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.****P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.****P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.****P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**

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P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**\* SECTION 3: Composition/information on ingredients****Information on ingredients:**

Acryl resin	1-10%
Silane coupling agent	1-10%
108-88-3 Toluene	35-45%
Xn R48/20-63-65; Xi R38; F R11	
R67	
Repr. Cat. 3	
Flam. Liq. 2, H225	
Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304	
Skin Irrit. 2, H315; STOT SE 3, H336	
67-63-0 Isopropyl alcohol	35-45%
Xi R36; F R11	
R67	
Flam. Liq. 2, H225	
Eye Irrit. 2, H319; STOT SE 3, H336	

**Description:** Mixture of substances listed below with nonhazardous additions.**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Seek medical treatment.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Remove contaminated clothes immediately.

Immediately wash with water and soap and rinse thoroughly.

Consult a doctor in case of complaints.

**After eye contact:**

Immediately rinse with a lot of water for several minutes. Remove contact lenses if possible. Continue rinsing.

Consult an ophthalmologist in case of complaints.

**After swallowing:**

Rinse mouth with water. Do not induce vomiting.

Consult a doctor in case of complaints.

**4.2 Most important symptoms and effects, both acute and chronic:** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

CO<sub>2</sub>**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire.

Receptacle may explode when heated.

Extremely flammable; can ignite easily with heat, sparks, fire.

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**5.3 Advice for firefighters:**

The flash point is extremely low: water spray can be used for a large fire only if other extinguishing means have no effect.

Remove receptacles from area of fire if possible.

**Protective equipment:**

Wear self-contained breathing apparatus and protective suit.

Do not inhale explosion gases or combustion gases.

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation before entering the area.

Stay on the windward side.

Keep out unauthorized persons.

Wear appropriate protective devices (See Section 8 Exposure Controls/Personal Protection).

Avoid contact with eyes and skin.

Do not swallow the product.

**6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars.**

**6.3 Methods and material for containment and cleaning up:**

Do not flush with water or aqueous cleansing agents

For a small amount of leakage: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) or collect in an empty container that can be sealed tightly.

For a small amount of leakage: Use clean anti-static tools when absorbing the product.

For a large amount of leakage: Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect.

Remove ignition sources immediately.

Ground all equipment when the product leaks.

There is a danger of explosion. Prepare fire extinguisher in case of emergency.

**6.4 Reference to other sections:**

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling:**

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Handle with care. Avoid jolting, friction and impact.

Do not handle until all safety precautions have been read and understood.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use flame proof electric/lighting devices and ventilation equipment.

Ground/bond container and receiving equipment.

**7.2 Conditions for safe storage, including any incompatibilities:**

**Storage**

**Requirements to be met by storerooms and receptacles:**

Store in a cool and dry location.

Provide solvent resistant, sealed floor.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

Keep containers tightly sealed.

**Information about storage in one common storage facility:**

See section 10 for information on incompatible materials.

**Further information about storage conditions:**

Protect from heat and direct sunlight.

Store containers in a well ventilated area.

Store locked up.

**7.3 Specific end use(s): No further relevant information available.**

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The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

Keep away from tobacco products.

**Respiratory protection:** Use respiratory protective device with organic gas cartridge.**Protection of hands:**

Protective gloves

**Material of gloves:** Rubber**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Safety glasses

**Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance****Form:** Liquid**Colour:** Transparent**Odour:** Alcohol-like**Odour threshold:** Not determined.**pH-value:** No further information available.**Melting point/freezing point:** No further information available.**Initial boiling point and boiling range:** No further information available.**Flash point:** 5°C (SCC)**Flammability (solid, gas):** Not applicable.**Decomposition temperature:** No further information available.**Auto-ignition temperature:** Product is not selfigniting.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Explosion limits:****Lower explosive limit:** 1.2 Vol %**Upper explosive limit:** 12 Vol %**Vapour pressure:** No further information available.**Density at 25°C:** 0.85 g/cm³

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**Relative density** Not determined.  
**Vapour density** Not determined.  
**Evaporation rate** Not determined.

**Solubility in / Miscibility with water:** No further information available.

**Partition coefficient: n-octanol/water:** No further information available.

**Viscosity:**  
**Dynamic:** Not determined.  
**Kinematic:** Not determined.

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

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

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.

**10.4 Conditions to avoid:** Keep away from heat, sparks, flame, high temperature.

**10.5 Incompatible materials:** Oxidizing agents

**10.6 Hazardous decomposition products:**

Carbon monoxide

Carbon dioxide

## \* **SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:** No further information available.

**Primary irritant effect**

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**CMR effects**

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Suspected of damaging the unborn child.

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Chronic study** No further information available.

## **SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**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.

**Ecotoxicological effects:** no data

**12.5 Results of PBT and vPvB assessment**

**PBT:** No further relevant information available.

**vPvB:** No further relevant information available.

**12.6 Other adverse effects:** No further relevant information available.

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**Trade name: DAI-EL LATEX GLP-103SR****SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation:** Disposal must be made according to official regulations.**Uncleaned packaging****Recommendation:** Disposal must be made according to official regulations.\* **SECTION 14: Transport information****14.1 UN-Number:****ADR, IMDG, IATA** **UN1263****14.2 UN proper shipping name:****ADR, IMDG, IATA** **PAINT****14.3 Transport hazard class(es):****ADR****Class:****3 (F1) Flammable liquids.****Label:****3****IMDG, IATA****Class:****3 Flammable liquids.****Label:****3****14.4 Packing group:****ADR, IMDG, IATA** **II****14.5 Environmental hazards:****Marine pollutant:** **No****14.6 Special precautions for user:** **Warning: Flammable liquids.****Danger code (Kemler):****33****EMS Number:****F-E,S-E****Stowage Category****B****14.7 Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code:****Not applicable.****Transport/Additional information:****Avoid direct sunlight. Make sure of no damage, corrosion, leaks on the receptacles.****Take necessary measures for preventing cargo shift.****ADR****Limited quantities (LQ):****5L****Excepted quantities (EQ)****Code: E2****Maximum net quantity per inner packaging: 30 ml****Maximum net quantity per outer packaging: 500 ml****2****D/E****Transport category:****Tunnel restriction code:****IMDG****5L****Limited quantities (LQ)****Code: E2****Excepted quantities (EQ)****Maximum net quantity per inner packaging: 30 ml****Maximum net quantity per outer packaging: 500 ml****UN "Model Regulation":** **UN 1263 PAINT, 3, II**

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**Trade name: DAI-EL LATEX GLP-103SR****\* SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***No further relevant information available.***Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the CLP regulation.***Hazard pictograms**

GHS02



GHS07



GHS08

**Signal word Danger****Hazard-determining components of labelling:***Toluene**Isopropyl alcohol***Hazard statements***H225 Highly flammable liquid and vapour.**H315 Causes skin irritation.**H319 Causes serious eye irritation.**H361d Suspected of damaging the unborn child.**H336 May cause drowsiness or dizziness.**H373 May cause damage to organs through prolonged or repeated exposure.**H304 May be fatal if swallowed and enters airways.***Precautionary statements***P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***Directive 2012/18/EU****Seveso category P5c FLAMMABLE LIQUIDS***Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t**Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t**National regulations* No further information available.**Other regulations, limitations and prohibitive regulations: 1****15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information***The product is for the industrial use only. We do not guarantee the safety in case the product is used for the other purposes. When using the product for health-care application or food/feed application, consult us in advance.**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.***Department issuing SDS: EHS Department****Contact:** <http://www.daikin.com/>**Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**LC50: Lethal concentration, 50 percent*

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**Trade name: DAI-EL LATEX GLP-103SR***LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Asp. Tox. 1: Aspiration hazard – Category 1***\* Data compared to the previous version altered.**