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.
Trade name: DAI-EL LATEX GLP-103SR

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
   CO₂
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.
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.
SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
No further information available.

Ingredients with limit values that require monitoring at the workplace:
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 breakthrough 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 self-igniting.

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
Trade name: DAI-EL LATEX GLP-103SR

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.
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
IMDG, IATA

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
Exceptional quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

Transport category: 2
Tunnel restriction code: D/E

IMDG
Limited quantities (LQ): 5L
Exceptional quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1263 PAINT, 3, II
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 P5: 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
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.