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Version number 1

Revision: 29.11.2016

*** SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: DAI-EL LATEX GLP-102NR****Article number: GLP102NR****1.2 Relevant identified uses of the substance or mixture and uses advised against:****No further relevant information available.****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.****Skin Corr. 1B H314 Causes severe skin burns and eye damage.****Eye Dam. 1 H318 Causes serious eye damage.****Hazard description:****C Corrosive****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.****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.****P310 Immediately call a POISON CENTER/doctor.****P405 Store locked up.****P501 Dispose of contents/container in accordance with local/regional/national/international regulations.**

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Version number 1

Revision: 29.11.2016

Trade name: DAI-EL LATEX GLP-102NR*** SECTION 3: Composition/information on ingredients****Information on ingredients:**

71-36-3 <i>n</i> -Butanol	5-15%
Xn R22; Xi R37/38-41	
R10-67	
Flam. Liq. 3, H226	
Eye Dam. 1, H318	
Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
Silicone coupling comp.	15-25%
C R34; Xn R22	
Skin Corr. 1B, H314	
Acute Tox. 4, H302	
64-17-5 Ethanol	65-75%
F R11	
Flam. Liq. 2, H225	

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**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.

Printing date 29.11.2016

Version number 1

Revision: 29.11.2016

Trade name: DAI-EL LATEX GLP-102NR

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:

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:

Prevent formation of aerosols.

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:

Store away from oxidising agents.

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.

Printing date 29.11.2016

Version number 1

Revision: 29.11.2016

Trade name: DAI-EL LATEX GLP-102NR**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 filters for organic and acid gas (or airline respirators in some cases) if formation of toxic gases is possible while the product is heated.**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:	Colourless
Odour:	Alcohol-like
Odour threshold:	Not determined.
pH-value:	No further information available.
Melting point/Melting range:	No further information available.
Boiling point/Boiling range:	100 °C (Water) No further information available.
Flash point:	14 °C (SCC)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	300 °C
Decomposition temperature:	No further information available.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower explosive limit:	1,5 Vol %
Upper explosive limit:	15,0 Vol %

Vapour pressure at 20 °C:

Vapour pressure at 20 °C:	59 hPa
	No further information available.

Density at 20 °C:

Density at 20 °C:	0,824 g/cm ³
	No further information available.

Relative density*Not determined.*

Printing date 29.11.2016

Version number 1

Revision: 29.11.2016

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Vapour density	<i>Not determined.</i>
Evaporation rate	<i>Not determined.</i>
Solubility in / Miscibility with water:	<i>No further information available.</i>
Partition coefficient (n-octanol/water):	<i>No further information available.</i>
Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
9.2 Other information:	<i>No further relevant information available.</i>

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:***As for decomposition products, particulate matters and extremely toxic/corrosive fumes may be generated (HF, carbonyl fluoride, monomers, perfluoroisobutylene).**Decomposition products differ depending on the temperature and conditions.***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:****Silicone coupling comp.****Oral** LD50 1780 mg/kg (Rat)**Dermal** LD50 4000 mg/kg (Rabbit)**Primary irritant effect****Skin corrosion/irritation***Causes severe skin burns and eye damage.***Serious eye damage/irritation***Causes serious eye damage.***Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.***Additional toxicological information:****General effects:***Fumes generated during burning may cause "polymer fume fever" (flu-like symptoms such as fever, chill, cough).**This may last for a whole day and night.**Fumes are not absorbed in skin. No sensitizing effect known.***Effects of hydrogen fluoride:***Low concentration of hydrogen fluoride may cause feeling of dyspnea, cough, irritation in eyes, nose, throat, fever, chill for 1-2 days.**After that, dyspnea, cyanosis and pulmonary edema may be seen.**High concentration of hydrogen fluoride damages liver and kidney.***Effects of carbonyl fluoride:****Skin:** *Irritation or eruption***Eye:** *Ulcer in cornea, conjunctiva***Respiratory system :** *Irritation***Lung:** *Temporary symptoms such as cough, pain, dyspnea**Persons who have experienced lung diseases are vulnerable to toxicity caused by excessive exposure to pyrolysis products*

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Trade name: DAI-EL LATEX GLP-102NR**CMR effects****Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**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**Additional ecological information:****General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised.**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****UN3469****14.2 UN proper shipping name:****ADR, IMDG****PAINT, FLAMMABLE, CORROSIVE****IATA:****Paint, flammable, corrosive****14.3 Transport hazard class(es):****ADR, IMDG, IATA****Class:****3 Flammable liquids.****14.4 Packing group:****ADR, IMDG, IATA****II****14.5 Environmental hazards:****Marine pollutant:****No****14.6 Special precautions for user:****Warning: Flammable liquids.****EMS Number:****F-E,S-C****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.**

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Version number 1

Revision: 29.11.2016

Trade name: DAI-EL LATEX GLP-102NR**ADR****Limited quantities (LQ):****Excepted quantities (EQ):****1L****Code: E2****Maximum net quantity per inner packaging: 30 ml****Maximum net quantity per outer packaging: 500 ml****UN 3469 PAINT, FLAMMABLE, CORROSIVE, 3, II****UN "Model Regulation":***** 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 GHS05

Signal word Danger**Hazard-determining components of labelling:***Silicone coupling comp.**n-Butanol***Hazard statements***H225 Highly flammable liquid and vapour.**H314 Causes severe skin burns and eye damage.***Precautionary statements***P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**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.**P310 Immediately call a POISON CENTER/doctor.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***National regulations** *No further information available.***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**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity – Category 4*

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Version number 1

Revision: 29.11.2016

Trade name: DAI-EL LATEX GLP-102NR*Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**** Data compared to the previous version altered.**