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Version number 1

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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 DPA-382****Article number: DPA382****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:***+81-6-6349-7521, +86-512-5-232-0949, +86-21-34151689,**+82-2-568-1722, +1-256-306-5000, +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. 3 H226 Flammable liquid and vapour.**Repr. 1B H360FD May damage fertility. May damage the unborn child.**STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.***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.**P241 Use explosion-proof electrical/ventilating/lighting/equipment.**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**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:***9011-17-0 Fluoroelastomer 15-25%**1333-86-4 Carbon black <5%*

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123-86-4 <i>n</i> -Butyl acetate	35-45%
R10-66-67	
Flam. Liq. 3, H226; STOT SE 3, H336	
123-92-2 Isopentyl acetate	5-15%
R10-66	
Flam. Liq. 3, H226	
108-83-8 2,6-Dimethylheptan-4-one	5-15%
Xi R37	
R10	
Flam. Liq. 3, H226; STOT SE 3, H335	
64-17-5 Ethanol	<5%
F R11	
Flam. Liq. 2, H225	
1330-20-7 Xylene	<5%
Xn R20/21; Xi R38	
R10	
Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
64-19-7 Acetic acid	<5%
C R35	
R10	
Flam. Liq. 3, H226; Skin Corr. 1A, H314	
Others	<5%

**SVHC:**

111-96-6 Bis(2-methoxyethyl) ether

**Additional information:** For the wording of the listed risk 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:**

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothes immediately.

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:**

Water haze

Water spray

Fire-extinguishing powder

CO<sub>2</sub>

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Dry sand

Alcohol resistant foam

**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:** 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.

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:**

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 respiratory protective device available.

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.

Keep receptacle 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 receptacle in a well ventilated area.

Store locked up.

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**Trade name: DAI-EL LATEX DPA-382****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:****123-86-4 n-Butyl acetate**OEL (Japan) Long-term value: 475 mg/m<sup>3</sup>, 100 ppmPEL (USA) Long-term value: 710 mg/m<sup>3</sup>, 150 ppmREL (USA) Short-term value: 950 mg/m<sup>3</sup>, 200 ppmLong-term value: 710 mg/m<sup>3</sup>, 150 ppmTLV (USA) Short-term value: 950 mg/m<sup>3</sup>, 200 ppmLong-term value: 713 mg/m<sup>3</sup>, 150 ppm**123-92-2 Isopentyl acetate**OEL (Japan) Long-term value: 266,3 mg/m<sup>3</sup>, 50 ppm  
Ceiling limit: 532,5 mg/m<sup>3</sup>, 100 ppmPEL (USA) Long-term value: 525 mg/m<sup>3</sup>, 100 ppmREL (USA) Long-term value: 525 mg/m<sup>3</sup>, 100 ppmTLV (USA) Short-term value: 532 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 266 mg/m<sup>3</sup>, 50 ppm**108-83-8 2,6-Dimethylheptan-4-one**PEL (USA) Long-term value: 290 mg/m<sup>3</sup>, 50 ppmREL (USA) Long-term value: 150 mg/m<sup>3</sup>, 25 ppmTLV (USA) Long-term value: 145 mg/m<sup>3</sup>, 25 ppm**64-17-5 Ethanol**PEL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppmREL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppmTLV (USA) Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm**1333-86-4 Carbon black**PEL (USA) Long-term value: 3,5 mg/m<sup>3</sup>REL (USA) Long-term value: 3,5\* mg/m<sup>3</sup>

\*0,1 in presence of PAHs; See Pocket Guide Apps.A+C

TLV (USA) Long-term value: 3\* mg/m<sup>3</sup>

\*inhalable fraction

**Additional information:** The lists valid during the making were used as basis.**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.

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**Trade name: DAI-EL LATEX DPA-382****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**

<b>Form:</b>	Liquid
<b>Colour:</b>	Black
<b>Odour:</b>	Characteristic

**pH-value:**

No further information available.

**Melting point/Melting range:**

No further information available.

**Boiling point/Boiling range:**

No further information available.

**Flash point:**

23,3 °C (TCC)

**Lower explosive limit:**

0,8 Vol %

**Upper explosive limit:**

10,0 Vol %

**Vapour pressure:**

No further information available.

**Density at 25 °C:**0,99 g/cm<sup>3</sup>**Solubility in / Miscibility with****water:** No further information available.**Partition coefficient (n-octanol/water):** No further information available.**9.2 Other information:** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity****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****LD/LC50 values relevant for classification:** No further information available.

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**Trade name: DAI-EL LATEX DPA-382****Primary irritant effect****on the skin:** No further information available.**on the eye:** No further information available.**after inhalation:** No further information available.**Sensitisation:** No further information available.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

**Irritant****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

**CMR effects****Germ cell mutagenicity:** No further information available.**Carcinogenicity:** No further information available.**Reproductive toxicity:** No further information available.**Aspiration hazard:** No further information available.**Specific target organ toxicity - single exposure:** No further information available.**Specific target organ toxicity - repeated exposure:** 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**

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**Trade name: DAI-EL LATEX DPA-382****14.2 UN proper shipping name:**

**ADR:** 1263 PAINT  
**IMDG, IATA** PAINT

**14.3 Transport hazard class(es):****ADR, IMDG, IATA****Class:****3 Flammable liquids.****Label:****3****14.4 Packing group:****ADR, IMDG, IATA** III**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user:** Warning: Flammable liquids.**EMS Number:** F-E, S-E**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: E1****Maximum net quantity per inner packaging: 30 ml****Maximum net quantity per outer packaging: 1000 ml****IMDG****Limited quantities (LQ)****1L****Excepted quantities (EQ)****Code: E2****Maximum net quantity per inner packaging: 30 ml****Maximum net quantity per outer packaging: 500 ml****UN "Model Regulation":****UN1263, PAINT, 3, III****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:***n*-Butyl acetate

Bis(2-methoxyethyl) ether

2,6-Dimethylheptan-4-one

**Hazard statements**

H226 Flammable liquid and vapour.

H360FD May damage fertility. May damage the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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**Trade name: DAI-EL LATEX DPA-382****Preccautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations** No further information available.**Other regulations, limitations and prohibitive regulations:** No further information available.**Substances of very high concern (SVHC) according to REACH, Article 57:**

111-96-6 Bis(2-methoxyethyl) ether

**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

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Repr. 1B: Reproductive toxicity, Hazard Category 1B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3