

## **SAFETY DATA SHEET** LAPKON HSG BASE (PART-A)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product name** LAPKON HSG BASE (PART-A)

Relevant identified uses of the substance or mixture and uses advised against **Identified uses** Base component of the epoxy system. For professional use.

1.3. Details of the supplier of the safety data sheet

Supplier **SILKON ADDITIVES INDIA PVT** 

LTD.

622-P, SECTOR-38 GURUGRAM HARYANA-122001

18001236299 / 9717887038

1.4. Emergency telephone number

Emergencytelephone 18001236299 / 9717887038

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Skin Irrit. 2-H315 Eye Irrit. 2-H319 Skin Sens. 1-H317

**Environmental hazards** Aquatic Chronic 2 - H411

Label elements

#### **Hazard pictograms**





Signal word Warning

**Hazard statements** H315 Causes skin irritation.

> H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P391 Collect spillage.

P501 Dispose of contents/ container in accordance with national regulations.

### **LAPKON HSG BASE (PART-A)**

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane 87%, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS 11% **Contains** 

Supplementary precautionary

statements

P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF

P2/2 Contaminated work clothing should not be allowed out of the workplace. P302+P352 ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

60-100%

(number average molecular weight ≤ 700) 87%

CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-

2119456619-26-XXXX

Classification

Skin Irrit. 2-H315 EyeIrrit.2-H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

### OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS

10-30%

11%

CAS number: 68609-97-2 EC number: 271-846-8

Classification

Skin Irrit. 2-H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

#### HYDROCARBONS, C9, aromatics

<1%

CAS number: 64742-95-6

EC number: 918-668-5

REACH registration number: 01-2119455851-35-0000

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H335, H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

### LAPKON HSG BASE (PART-A)

1,2,4-TRIMETHYLBENZENE <1%

CAS number: 95-63-6 EC number: 202-436-9

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411

**MESITYLENE** <1%

CAS number: 108-67-8 EC number: 203-604-4

Classification

Flam. Liq. 3-H226 Skin Irrit. 2 - H315 Eye Irrit. 2-H319 STOT SE 3 - H335

Aquatic Chronic 2 - H411

**CUMENE** <1%

CAS number: 98-82-8 EC number: 202-704-5

Classification

Flam. Liq. 3-H226 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

**XYLENE** <1%

CAS number: 1330-20-7 EC number: 215-535-7 REACH registration number: 01-

2119488216-32-0000

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4-H332 Skin Irrit. 2-H315

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### **SECTION 4: First aid measures**

#### **Description of first aid measures**

**General information** When symptoms persist or in all cases of doubt seek medical advice.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing.

Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues. Ingestion

### **LAPKON HSG BASE (PART-A)**

Skin contact Wash skin thoroughly with soap and water. Remove contaminated clothing. Wash

contaminated clothing before reuse. Get medical attention if irritation persists after washing.

Eye contact Do not rub eye. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

#### Most important symptoms and effects, both acute and delayed

**General information** The severity of the symptoms described will vary dependent on the concentration and the length

of exposure.

Inhalation May cause coughing and difficulties in breathing.

Ingestion Nausea, vomiting. May cause discomfort. Skin contact May cause an allergic skin reaction. Eye contact Severe irritation, burning and tearing.

### Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

### **SECTION 5: Firefighting measures**

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder. 5.2.

#### Special hazards arising from the substance or mixture

Specific hazards Dust may form explosive mixture with air.

Hazardous combustion

products

Heating may generate the following products: Carbon dioxide (CO2), Carbon monoxide (CO).

In case of fire: Evacuate area. No action shall be taken without appropriate training or involving 5.3. Advice for firefighters

any personal risk. Move containers from fire area if it can be done without risk. Fire residues and contaminated fire-fighting water must be disposed of in accordance within the local regulations.

Protective actions during

firefighting

Wear self-contained breathing apparatus and protective fire fighting clothing.

### Special protective equipment

for firefighters

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective clothing, gloves, eye and face protection. 6.2. Personal precautions

**Environmental precautions** 

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Harmful to aquatic life with

long lasting effects.

#### Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Waste, Methods for cleaning up

residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

#### Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

### **LAPKON HSG BASE (PART-A)**

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

#### Precautions for safe handling

Usage precautions Wear protective clothing, gloves, eye and face protection. Wash skin thoroughly after

handling

Advice on general occupational hygiene

 $Do \, not \, eat, drink \, or \, smoke \, when \, using \, this \, product. \, Wash \, at \, the \, end \, of \, each \, work \, shift \, and \, before \, eating, \, smoking \, and \, using \, the \, toilet. \, Wash \, contaminated \, clothing \, before \, reuse.$ 

#### Conditions for safe storage, including anyincompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Chemical storage.

Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

#### **SECTION 8: Exposure controls/Personal protection**

#### Control parameters

#### Occupational exposure limits

#### HYDROCARBONS, C9, aromatics

Long-term exposure limit (8-hour TWA): WEL 100 mg/m3

#### 1,2,4-TRIMETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³ Short-term exposure limit (15-minute): WEL

#### MESITYLENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³ Short-term exposure limit (15-minute): WEL

#### CUMENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³ Short-term exposure limit (15-minute): WEL 50 ppm 250 mg/m³ Sk

#### XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk WEL = Workplace Exposure Limit Sk = Can be absorbed through skin.

Sk = Can be absorbed through the skin.

Ingredient comments WEL = Workplace Exposure Limits

# reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 87% (CAS: 25068-38-6)

**DNEL** Workers - Inhalation; Short term systemic effects: 12.25 mg/m³

Workers - Inhalation; Long term systemic effects: 12.25 mg/m<sup>3</sup>

PNEC - Fresh water; 0.006 mg/l

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS 11% (CAS: 68609-97-2)

### **LAPKON HSG BASE (PART-A)**

Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg bw/day **DNEL** 

**PNEC** - Fresh water; 0.0072 mg/l

- marine water; 0.00072 mg/l

HYDROCARBONS, C9, aromatics (CAS: 64742-95-6)

**DNEL** 

Professional - Dermal; systemic effects: 25 mg/kg/day Professional - Inhalation; systemic effects: 150 mg/m³ Consumer - Oral; systemic effects: 11 mg/kg/day Consumer - Inhalation; systemic effects: 32 mg/m³ Consumer - Dermal; systemic effects: 11 mg/kg/day

XYLENE (CAS: 1330-20-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup>

Workers - Inhalation; Short term systemic effects: 289 mg/m³ Workers - Dermal; Long term systemic effects: 180 mg/kg/day

**PNEC** - Fresh water; 0.327 mg/l

- marine water; 0.327 mg/l

- STP; 6.58 mg/l

#### **Exposure controls**

#### Protective equipment









Appropriate engineering

controls

Provide adequate ventilation.

Eye/face protection **Hand protection** 

Nitrile gloves are recommended.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Weartight-fitting, chemical splash goggles or face shield.

Hygiene measures

Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking. Remove contaminated clothing immediately.

Respiratory protection

Gas filter, type A2.

**Environmental exposure** 

controls

Avoid release to the environment. Keep container tightly sealed when not in use.

### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Clear liquid. **Appearance** Colour White Odour Mild

Odourthreshold Not determined. рH Not applicable.

### **LAPKON HSG BASE (PART-A)**

Relative density 1.12-1.15

Solubility(ies) Insoluble in water
Viscosity 14 - 23 Poise @ 27°C

**Explosive properties** Not considered to be explosive. **Explosive under the influence** Not considered to be explosive.

Explosive under the initiaenc

**Oxidising properties** 

of a flame

The mixture itself has not been tested but none of the ingredient substances meet the criteria for

classification as oxidising.

Other information

Other information None.

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

10.1. Reactivity

**Reactivity** The following materials may react with the product: Amines. Alcohols. 10.2.

**Chemical stability** 

**Stability** Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid heat.

10.5. Incompatible materials

Materials to avoid Acids. Alkalis. 10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended.

products

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

#### 11.1. Information on toxicological effects

**Inhalation** May cause respiratory system irritation.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** Irritating to eyes.

Target organs Skin Eyes Respiratory system, lungs

Toxicological information on ingredients.

### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 87%

**Acute toxicity - oral** 

Acute toxicity oral 5,000.0 (LD□□

mg/kg)

Species Rat

### **LAPKON HSG BASE (PART-A)**

Notes (oral LD□□) NOAEL 750 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 5,000.0

Acute toxicity - dermal

Acute toxicity dermal

20,000.0

(LD□□ mg/kg)

Species Rabbit

Notes (dermal LD□□) LD□□ >1600 mg/kg, Dermal, Rat

**ATE dermal (mg/kg)** 20,000.0

Skin corrosion/irritation

Animal data Rabbit Moderately irritating.

**Skin sensitisation** 

**Skin sensitisation** May cause sensitisation by skin contact.

#### OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS 11%

**Acute toxicity - oral** 

Acute toxicity oral

19,200.0

(LD□□ mg/kg)

Species Rat ATE oral (mg/kg) 19,200.0

**Acute toxicity - dermal** 

Acute toxicity dermal

4,500.0

(LD□□ mg/kg)

**Species** Rat

Notes (dermal LD□□) LD□□ >2000 mg/kg, Dermal, Rabbit

**ATE dermal (mg/kg)** 4,500.0

HYDROCARBONS, C9, aromatics

**Acute toxicity - oral** 

Acute toxicity oral

(LD□□ mg/kg) 3,592.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal

3,160.0

(LD□□ mg/kg)

Species Rabbit

**Acute toxicity - inhalation** 

Acute toxicity inhalation

6.2

(LC□□ vapours mg/l)

Species Rat

6.2

### **LAPKON HSG BASE (PART-A)**

ATE inhalation (vapours

mg/l)

**XYLENE** 

Acute toxicity - dermal

ATE dermal (mg/kg) 1.100.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### **SECTION 12: Ecological information**

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

**Toxicity** 

**Ecological information on ingredients.** 

reaction product: bisphenol-A-(epichlorhydrin) epoxyresin (number average molecular weight≤700) 87%

**Toxicity** Ecotoxic to fish/daphnia/algae

**Acute aquatic toxicity** 

LC□□, 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe) Acute toxicity-fish

LC□□, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

EC□□, 48 hours: 1.8 mg/l, Daphnia magna

invertebrates EC50, 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae)

Acute toxicity - aquatic

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS 11% plants

Acute aquatic toxicity

Acute toxicity-fish LC□□, 96 hours: 1 - 10 mg/l, Fish

LC□□, 96 hours: 1800 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

EC□□, 48 hours: 1 - 10 mg/l, Daphnia magna

invertebrates

EC□□, 72 hours: 844 mg/l, Algae

Acute toxicity - aquatic

**HYDROCARBONS, C9, aromatics** plants

Acute aquatic toxicity

Acute toxicity-fish LC□□, : 9.2 mg/l, Oncorhynchus mykiss (Rainbowtrout)

EC□□,: 3.2 mg/l, Daphnia magna Acute toxicity - aquatic

invertebrates

EC□□, : 2.6 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - aquatic

**XYLENE** plants

### LAPKON HSG BASE (PART-A)

**Toxicity** Not considered toxic to fish.

Persistence and degradability

Persistence and degradability The product contains substances which are not expected to be biodegradable.

**Ecological information on ingredients.** 

reaction product: bisphenol-A-(epichlorhydrin) epoxyresin(number average molecular weight≤700) 87%

Persistence and

The product is not readily biodegradable.

degradability

**HYDROCARBONS, C9, aromatics** 

Water - Degradation (%) 78: 28 days The substance is readily biodegradable. Biodegradation

**XYLENE** 

Persistence and degradability

Expected to be not readily biodegradable.

**Bioaccumulative potential** 

**Bioaccumulative potential** No data available on bioaccumulation.

**Ecological information on ingredients.** 

reaction product: bisphenol-A-(epichlorhydrin) epoxyresin (number average molecular weight≤700) 87%

Partition coefficient log Pow: 3.242

12.4. Mobility in soil

Mobility The product is insoluble in water.

**Ecological information on ingredients.** 

reaction product: bisphenol-A-(epichlorhydrin) epoxyresin(number average molecular weight≤700) 87%

**Mobility** The product has poor water-solubility.

Adsorption/desorption

coefficient

Water - Koc: 445 @ °C

**XYLENE** 

**Mobility** The product is insoluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

**Ecological information on ingredients.** 

reaction product: bisphenol-A-(epichlorhydrin) epoxyresin(number average molecular weight≤700) 87%

Results of PBT andvPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

Other adverse effects

### **LAPKON HSG BASE (PART-A)**

Other adverse effects None known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Do not empty into drains, sewers or water courses. The generation of waste should be minimised or avoided wherever possible. **General information** 

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local

Waste Disposal Authority.

#### **SECTION 14: Transport information**

#### **UN** number

UN No. (ADR/RID) 3082 UN No. (IMDG) 3082 UN No. (ICAO) 3082 3082 UN No. (ADN)

#### **UN proper shipping name**

Proper shipping name (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW <= 700 ), SOLVENT NAPHTHA)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW <= 700 ), SOLVENT NAPHTHA)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW  $\leq$  700 ), SOLVENT NAPHTHA)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW  $\ll$  700 ), SOLVENT NAPHTHA) Proper shipping name (ADN)

#### Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6 ADR/RID label 9 **IMDG class** 9 ICAO class/division 9 **ADN class** 9

Transport labels



### Packing group

ADR/RID packing group Ш IMDG packing group Ш ICAO packing group Ш ADN packing group Ш

### LAPKON HSG BASE (PART-A)

#### **Environmental hazards**

#### Environmentally hazardous substance/marine pollutant



#### Special precautions for user

F-A, S-F **EmS** 

**ADR transport category** 3 **Emergency Action Code** •3Z **Hazard Identification Number** 90

(ADR/RID)

**Tunnel restriction code** (-)

#### Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** The Manufacture, storage and import of hazardous chemicals rules 1989.

**EU** legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance Safety Data Sheets for Substances and Preparations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### **SECTION 16: Other information**

**General information** For professional use only. Only trained personnel should use this material.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 25/02/2019

Revision

Supersedes date 07/05/2015 SDS number 21882

### **LAPKON HSG BASE (PART-A)**

Hazard statements in full H226 Flammable liquid and vapour.

H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



### SAFETY DATA SHEET **LAPLON HSG FILLER**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product name** LAPKON HSG FILLER

**Product number** A1165017

Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Filler component of three-part epoxy grout.

Details of the supplier of the safety data sheet

Supplier **SILKON ADDITIVES INDIA PVT** 

LTD.

622-P, SECTOR-38 GURUGRAM HARYANA-122001

18001236299 / 9717887038

Emergency telephone number

Emergencytelephone 18001236299 / 9717887038

#### **SECTION 2: Hazards identification**

### Classification of the substance or mixture Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

Not Classified **Environmental hazards** 

Classification (67/548/EEC or -1999/45/EC)

#### **Label elements**

#### Hazard



Signal word Danger

**Hazard statements** H315 Causes skin irritation.

> H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

#### LAPLON HSG FILLER

P261 Avoid breathing dust. **Precautionary statements** 

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/ container in accordance with national regulations.

**Contains CEMENT POWDER** 

Supplementary precautionary

statements

P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405
Store locked up.

Store locked up.

#### Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

ORDINARY PORTLAND CEMENT 10-30%

CAS number: 65997-15-1 EC number: 266-043-4

Classification Skin Irrit. 2-H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

QUARTZ (SiO2) 5-10%

EC number: 238-878-4 CAS number: 14808-60-7

Classification Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### **SECTION 4: First aid measures**

### Description of first aid measures

**General information** Remove affected person from source of contamination. Inhalation Remove affected person from source of contamination.

Ingestion Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Never give

anything by mouth to an unconscious person.

Wash skin thoroughly with soap and water. Remove affected person from source of Skin contact

contamination. Remove contaminated clothing. Get medical attention if irritation persists after washing.

#### LAPLON HSG FILLER

Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Eye contact

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length

of exposure.

Inhalation Frequent inhalation of dust over a long period of time increases the risk of developing lung

diseases.

Ingestion Ingestion of large doses may result in irritation to the gastrointestinal tract.

May have an irritating effect on moist skin after prolonged contact, or may cause dermatitis after repeated contact. Prolonged skin contact with wet preparation may cause serious burns without pain being felt, including through clothing. Skin contact

**Eve contact** Eye contact may cause serious and potentially irreversible injuries. 4.3.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. **5.2**.

#### Special hazards arising from the substance or mixture

Specific hazards Water used for fire extinguishing, which has been in contact with the product, may be

corrosive. No unusual fire or explosion hazards noted.

**Hazardous combustion** 

products

No known hazardous decomposition products.

5.3. Advice for firefighters

No specific firefighting precautions known.

Protective actions during

firefighting

Use protective equipment appropriate for surrounding materials.

Special protective equipment

for firefighters

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

### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes and prolonged skin contact. Wear protective clothing and gloves.

Avoid inhalation of dust.

#### **Environmental precautions**

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. 6.3.

#### Methods and material for containment and cleaning up

Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Waste, residues, empty containers, discarded Methods for cleaning up

work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

#### LAPLON HSG FILLER

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

#### Precautions for safe handling

Wear protective clothing, gloves, eye and face protection. Wash skin thoroughly after handling. **Usage precautions** 

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the Storage precautions

original container.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

#### **SECTION 8: Exposure controls/Personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

#### ORDINARY PORTLAND CEMENT

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

#### QUARTZ (SiO2)

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m $^3$  Respirable crystalline silica WEL = Workplace Exposure Limit

WEL = Workplace Exposure Limits Ingredient comments

#### ORDINARY PORTLAND CEMENT (CAS: 65997-15-1)

**DNEL** Workers - Inhalation; Short term: 3 mg/m3

#### 8.2. Exposure controls

#### Protective equipment









Appropriate engineering controls

Provide adequate ventilation.

Personal protection

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. This product may present a chromate (VI) allergyrisk. Users should wear appropriate personal protective equipment.

Eye/face protection Weartight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated.

Use impervious, abrasion and alkali resistant gloves. Barrier cream applied before work may make **Hand protection** 

it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking. Remove contaminated clothing immediately. Hygiene measures

#### LAPLON HSG FILLER

Respiratory protection Wear a suitable dust mask. Wear a respirator fitted with the following cartridge: Particulate filter,

type P2.

#### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** Dusty powder.

ColourGrey.OdourOdourless.

pH (concentrated solution): >12

Melting pointNot applicable.Initial boiling point and range> 1000 □Flash pointNot applicable.Flammability (solid, gas)Not applicable.

Upper/lower flammability or

explosive limits

The product is not flammable.

Bulk density 1.60 g/cm3

**Solubility(ies)** Slightly soluble in water.

Viscosity Not applicable.

**Explosive properties**Not considered to be explosive. **Explosive under the influence**Not considered to be explosive.

Explosive under the initiaent

**Oxidising properties** 

of a flame

The mixture itself has not been tested but none of the ingredient substances meet the criteria for

classification as oxidising.

**Other information** 

Other information Not determined.

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

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product. 10.2.

**Chemical stability** 

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous

No potentially hazardous reactions known.

reactions

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation. 10.5.

**Incompatible materials** 

Materials to avoid No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

### 10.6. Hazardous decomposition products

#### **LAPLON HSG FILLER**

Hazardous decomposition

products

No known hazardous decomposition products.

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

### 11.1. Information on toxicological effects

Inhalation May cause coughing and difficulties in breathing.

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation. Eye contact Causes eye irritation.

### **SECTION 12: Ecological information**

**Ecotoxicity** Not regarded as dangerous for the environment.

12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### 12.2. Persistence and degradability

Persistence and degradability The product is not expected to be biodegradable. 12.3.

**Bioaccumulative potential** 

**Bioaccumulative potential** No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is not volatile but may be spread by dust-raising handling. 12.5.

#### Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

Other adverse effects None known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** The material is inert and suitable for disposal at an approved solid waste disposal or landfill site.

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. **Disposal methods** 

### **SECTION 14: Transport information**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). General

**UN** number

Not

applicable.

#### **UN proper shipping name**

Not applicable.

#### LAPLON HSG FILLER

#### Transport hazard class(es)

No transport warning sign

required. 14.4. Packing group

Not applicable.

#### **Environmental hazards**

Environmentally hazardous substance/marine pollutant

#### Special precautions for user

Not applicable.

and the IBC Code

### Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable.

### **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as **National regulations** 

amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as **EU** legislation

amended).

Guidance Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

#### **Chemical safety assessment**

No chemical safety assessment has been carried out.

### **SECTION 16: Other information**

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 01/03/2019

Revision SDS number 21887

Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



### **SAFETY DATA SHEET LAPKON HSG HARDENER (PART-B)**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

**Product name** LAPKON HSG HARDENER (PART-B)

Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Hardener component of three-part epoxy grout.

Details of the supplier of the safety data sheet

SILKON ADDITIVES INDIA PVT LTD. **Supplier** 

622-P, SECTOR-38 GURUGRAM HARYANA-122001

18001236299 / 9717887038

Emergency telephone number

Emergencytelephone 18001236299 / 9717887038

Emergency telephone number

#### **SECTION 2: Hazards identification**

### Classification of the substance or mixture Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens.

1 - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 1 - H370 STOT RE 2 - H373

**Environmental hazards** Aquatic Chronic 1 - H410

May cause serious eye damage. May cause skin sensitisation or allergic reactions in sensitive individuals. Contains a substance/a group of substances which may damage fertility and the unborn **Human health** 

The product contains a substance which is toxic to a quatic organisms and which may cause long-term adverse effects in the aquatic environment. **Environmental** 

#### **Label elements**

### Hazard pictograms









Signal word

Danger

### **LAPKON HSG HARDENER (PART-B)**

**Hazard statements** H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs .

H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

P260 Do not breathe vapour/spray.

P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with national regulations.

**Contains** 

ISOPHORONEDIAMINE, TRIETHYLENETETRAMINE, 4,4'-diaminodiphenylmethane, TRIMETHYLENE HEXAMETHYLENE DIAMINE

Supplementary precautionary

statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P261

Avoid breathing vapour/ spray.
P270 Do not eat, drink or smoke when using this product. P271

P270 Do not eat, drink or smoké when using this product. P271
Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace. P280
Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P310 Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P321 Specific treatment (see medical advice on this label)

P321 Specific treatment (see medical advice on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P391 Collect spillage.

P405 Store locked up.

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### LAPKON HSG HARDENER (PART-B)

**ISOPHORONEDIAMINE** 30-60%

REACH registration number: 01-2119514687-32-xxxx CAS number: 2855-13-2 EC number: 220-666-8

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B-H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

**TRIETHYLENETETRAMINE** 10-30%

CAS number: 112-24-3 EC number: 203-950-6

Classification

Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

10-30%

(number average molecular weight ≤ 700)

CAS number: 25068-38-6 REACH registration number: 01-2119456619-26-XXXX EC number: 500-033-5

Classification

Skin Irrit. 2-H315

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

4,4'-METHYLENEDIANILINE 10-30%

CAS number: 101-77-9 EC number: 202-974-4 Mfactor (Acute) = 1 M factor (Chronic) = 10

Substance of very high concern (SVHC).

Classification

Acute Tox. 3 - H301 Acute Tox. 2 - H330 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 1 - H370 STOT RE 2 - H373 Acute 1 - H Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

### **LAPKON HSG HARDENER (PART-B)**

### TRIMETHYLENE HEXAMETHYLENE DIAMINE

10-30%

CAS number: 25620-58-0 EC number: 247-134-8

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

PHENYL GLYCIDYL ETHER

5-10%

CAS number: 122-60-1 EC number: 204-557-2

Classification

Acute Tox. 4-H302 Acute Tox. 4-H332 Skin Irrit. 2-H315 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 3 - H335 Aquatic Chronic 3 - H412

SALICYLIC ACID

1-5%

CAS number: 69-72-7 EC number: 200-712-3 REACH registration number: 01-2119486984-17-XXXX

Classification

Acute Tox. 4-H302 Eye Dam. 1 - H318

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

1-5%

CAS number: 90-72-2

EC number: 202-013-9

REACH registration number: 01-2119560597-27

Classification

Acute Tox. 4-H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### **SECTION 4: First aid measures**

#### **Description of first aid measures**

**General information** When symptoms persist or in all cases of doubt seek medical advice.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention if any discomfort continues.

Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues. Ingestion

### **LAPKON HSG HARDENER (PART-B)**

Rinse immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention promptly if symptoms occur after washing. Skin contact

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Eye contact

#### Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependent on the concentration and the length General information

of exposure.

Inhalation May cause coughing and difficulties in breathing.

Ingestion May cause stomach pain or vomiting. May cause discomfort. Skin contact Causes severe burns. May cause an allergic skin reaction.

Eye contact Severe irritation, burning and tearing.

#### Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

### **SECTION 5: Firefighting measures**

Extinguish with foam, carbon dioxide or dry powder. Larger fires: Water spray. Suitable extinguishing media

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

media

### Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen.

Move containers from fire area if it can be done without risk. No action shall be taken without appropriate

training or involving any personal risk. Fire residues and contaminated fire-fighting water must be disposed of in accordance within the local regulations.

Protective actions during

Advice for firefighters

firefighting

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### Special protective equipment

for firefighters

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

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing, gloves, eye

and face protection.

#### **Environmental precautions**

Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other **Environmental precautions** 

appropriate regulatory body.

#### Methods and material for containment and cleaning up

Methods for cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

### **LAPKON HSG HARDENER (PART-B)**

#### Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

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

#### Precautions for safe handling

Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as **Usage precautions** 

described in Section 8 of this safety data sheet. Avoid spilling

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Take off contaminated clothing and wash it before reuse.

#### Conditions for safe storage, including anyincompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. 7.3.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### **SECTION 8: Exposure controls/Personal protection**

#### Control parameters

#### Occupational exposure limits

#### 4,4'-METHYLENEDIANILINE

Long-term exposure limit (8-hour TWA): WEL 0.01 ppm  $0.08 \text{ mg/m}^3$  Carc, Sk

### PHENYL GLYCIDYL ETHER

Long-term exposure limit (8-hour TWA): WEL 1 ppm 6.2 mg/m³ Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Carc = Capable of causing cancer and/or heritable genetic damage. Sk = Can be absorbed through the skin.

#### **ISOPHORONEDIAMINE (CAS: 2855-13-2)**

**PNEC** - marine water; 0.006 mg/l

> - Fresh water; 0.06 mg/l - Soil; 1.121 mg/kg

### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS:

#### 25068-38-6)

Workers - Inhalation; Short term systemic effects: 12.25 mg/m³ Workers - Inhalation; Long term systemic effects: 12.25 mg/m³ **DNEL** 

**PNEC** - Fresh water; 0.006 mg/l

SALICYLIC ACID (CAS: 69-72-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 5 mg/m3

Workers - Dermal; Long term systemic effects: 2.3 mg/kg bw/day Workers - Inhalation; Long term local effects: 5 mg/m³

General population - Inhalation; Long term systemic effects: 4 mg/m<sup>3</sup>

### **LAPKON HSG HARDENER (PART-B)**

**PNEC** - Fresh water; 0.20 mg/l

- marine water; 0.020 mg/l

- Sediment (Freshwater); 1.42 mg/kg dw

- Soil; 0.17 mg/kg dw - STP; 16.2 mg/l

Bis(dimethylaminomethyl)phenol (CAS: 71074-89-0)

**PNEC** - Fresh water; 0.084 mg/l

- marine water; 0.0084 mg/l

#### **Exposure controls**

#### **Protective equipment**









Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Viton rubber (fluoro rubber). **Hand protection** 

Hygiene measures

Provide eyewash station and safety shower. Discard contaminated shoes and clothing. Do not smoke in work area. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating,

smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Gas filter, type K.

### **SECTION 9: Physical and chemical properties**

#### <u>Information on basic physical and chemical properties</u>

**Appearance** Liquid

Colour Pale yellow Odour Amine Like Odourthreshold Not determined. Relative density 0.95 @ 27°C

Solubility(ies) Completely soluble. with water **Explosive properties** Not considered to be explosive.

**Explosive under the influence** 

of a flame

Not considered to be explosive.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria for

classification as oxidising.

Other information

Volatile organic compound This product contains a maximum VOC content of 5 g/l.

#### SECTION 10: Stability and reactivity

### LAPKON HSG HARDENER (PART-B)

Reactivity

Reactivity The reactivity data for this product will be typical of those for the following class of materials: Amines.

**Chemical stability** 

**Stability** Will decompose at temperatures exceeding 200°C.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Under normal conditions of storage and use, no hazardous reactions will occur.

reactions

10.4. Conditions to avoid

**Conditions to avoid** Avoid heat.

10.5. Incompatible materials

Materials to avoid Acids. Alkalis. 10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended.

products

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

#### 11.1.Information on toxicological effects

**Acute toxicity - oral** 

ATE oral (mg/kg) 659.77

**Acute toxicity - dermal** 

ATE dermal (mg/kg) 2,244.9

**Acute toxicity - inhalation** 

ATE inhalation (gases ppm) 92,592.59 ATE inhalation (dusts/mists

mg/l)

3.36

### **Reproductive toxicity**

Reproductive toxicity - fertility May damage fertility.

Inhalation May cause respiratory system irritation.

Ingestion Harmful if swallowed. Liquid irritates mucous membranes and may cause abdominal pain if

swallowed.

Skin contact May be harmful in contact with skin.

Eye contact May cause eye irritation.

Acute and chronic health

hazards

May cause cancer by inhalation. May cause cancer if swallowed.

### Toxicological information on ingredients.

### **ISOPHORONEDIAMINE**

### Acute toxicity - oral

### LAPKON HSG HARDENER (PART-B)

Acute toxicity oral

(LD□□ mg/kg)

Species Rat ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal

1,840.0

1,030.0

(LD□□ mg/kg)

Species Rabbit
ATE dermal (mg/kg) 1,100.0

Acute toxicity - oral TRIETHYLENETETRAMINE

Acute toxicity oral

2,500.0

(LD□□ mg/kg)

Species Rat ATE oral (mg/kg) 2,500.0

**Acute toxicity - dermal** 

Acute toxicity dermal

550.0

(LD□□ mg/kg)

Species Rabbit
ATE dermal (mg/kg) 1,100.0

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)

Acute toxicity - oral

Acute toxicity oral 5,000.0

(LD□□ mg/kg)

Species Rat

Notes (oral LD = ) NOAEL 750 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 5,000.0

**Acute toxicity - dermal** 

Acute toxicity dermal

20,000.0

(LD□□ mg/kg)

Species Rabbit

Notes (dermal LD□□) LD□□ >1600 mg/kg, Dermal, Rat

**ATE dermal (mg/kg)** 20,000.0

Skin corrosion/irritation

Animal data Rabbit Moderately irritating.

Skin sensitisation

**Skin sensitisation** May cause sensitisation by skin contact.

### **LAPKON HSG HARDENER (PART-B)**

#### 4,4'-METHYLENEDIANILINE

Acute toxicity - oral

Acute toxicity oral

(LD□□ mg/kg)

Species Guinea pig
ATE oral (mg/kg) 260.0

**Acute toxicity - dermal** 

Acute toxicity dermal

2,080.0

260.0

(LD□□ mg/kg)

Species Rat ATE dermal (mg/kg) 2,080.0

**Acute toxicity -inhalation** 

Acute toxicity inhalation (LC□□ dust/mist

0.46

(LO ... u

mg/l)

Species Rat
ATE inhalation 0.46

(dusts/mists mg/l)

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

#### PHENYL GLYCIDYL ETHER

**Acute toxicity - oral** 

Acute toxicity oral 1,400.0

 $(LD \square \square mg/kg)$ 

Species Mouse ATE oral (mg/kg) 1,400.0

Acute toxicity - dermal

Acute toxicity dermal

(LD□□ mg/kg)

Species Rabbit
ATE dermal (mg/kg) 2,990.0

**Acute toxicity -inhalation** 

Acute toxicity inhalation 5,000.0

(LC □ □ gases ppmV)

Species Rat
ATE inhalation(gases 5,000.0

ppm)

SALICYLIC ACID

2,990.0

Acute toxicity - oral

### **LAPKON HSG HARDENER (PART-B)**

Acute toxicity oral

891.0

(LD□□ mg/kg)

Species Rat ATE oral (mg/kg) 891.0

**Acute toxicity - dermal** 

Notes (dermal LD□□) LD□□ >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC □ □) LC50 > 0.9 mg/l, Inhalation, Rat

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

**Acute toxicity - oral** 

ATE oral (mg/kg) 500.0

**SECTION 12: Ecological information** 

**Ecotoxicity**The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquaticenvironment.

12.1. Toxicity

**Ecological information on ingredients.** 

**ISOPHORONEDIAMINE** 

**Acute aquatic toxicity** 

**Acute toxicity-fish** LC□□, 96 hours: 110 mg/l, Fish

Acute toxicity - aquatic EC□□, 48 hours: 23 mg/l, Daphnia magna

invertebrates IC□□, 72 hours: 50 mg/l, Algae

Acute toxicity - aquatic

plants <u>TRIETHYLENETETRAMINE</u>

Acute aquatic toxicity

Acute toxicity-fish LC□□, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic EC□□, 48 hours: 31.1 mg/L, Daphnia magna

invertebrates EC□□, 72 hours: 20 mg/l, Pseudokirchneriella subcapitata

EO 🗆 🖰 , 72 Hours. 20 Mg/1, F seudokirolinenena subcapitata

Acute toxicity - aquatic plants EC□□, 16 hour: 680 mg/l, Bacteria

Acute toxicity -

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

**Toxicity** Ecotoxic to fish/daphnia/algae

Acute aquatic toxicity

microorganisms

Acute toxicity-fish LC□□, 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe)

LC□□, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

### LAPKON HSG HARDENER (PART-B)

Acute toxicity - aquatic EC□□, 48 hours: 1.8 mg/l, Daphnia magna

invertebrates EC50, 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae)

Acute toxicity - aquatic

plants <u>4,4'-METHYLENEDIANILINE</u>

**Acute aquatic toxicity** 

**LE(C)** □ □ 0.1 < L(E)C50 ≤ 1

M factor (Acute)

**Acute toxicity-fish** LC□□, 96 hours: 20.6 mg/l, Oryzias latipes (Red killifish)

**Chronic aquatic toxicity** 

M factor (Chronic) 10

**SALICYLIC ACID** 

**Acute aquatic toxicity** 

**Acute toxicity-fish** LC□□, : 90 mg/l, Leuciscus idus (Golden orfe)

LC□□, 96 hours: 1.3 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC□□, 24 hours: 105 mg/l, Daphnia magna

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

**Acute aquatic toxicity** 

Acute toxicity-fish LC□□, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)

12.2. Persistence and degradability

Persistence and degradability The product is not expected to be biodegradable.

**Ecological information on ingredients.** 

<u>ISOPHORONEDIAMINE</u>

Persistence and degradability

The product is not readily biodegradable.

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Persistence and degradability

The product is not readily biodegradable.

Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

**Ecological information on ingredients.** 

**ISOPHORONEDIAMINE** 

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Kow: 0.99

### LAPKON HSG HARDENER (PART-B)

#### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)

Partition coefficient log Pow: 3.242

Mobility in soil

Mobility The product is soluble in water.

**Ecological information on ingredients.** 

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

**Mobility** The product has poor water-solubility.

Adsorption/desorption

coefficient

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB. Results of PBT and vPvB

Water - Koc: 445 @ °C

assessment

**Ecological information on ingredients.** 

**TRIETHYLENETETRAMINE** 

This product does not contain any substances classified as PBT or vPvB. Results of PBT andvPvB

assessment

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

This product does not contain any substances classified as PBT or vPvB. Results of PBT andvPvB

assessment

Other adverse effects

Other adverse effects None known.

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

General information Do not empty into drains, sewers or water courses. The generation of waste should be

minimised or avoided wherever possible.

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. **Disposal methods** 

**SECTION 14: Transport information** 

**UN number** 

UN No. (ADR/RID) 2735 UN No. (IMDG) 2735 UN No. (ICAO) 2735 UN No. (ADN) 2735

**UN proper shipping name** 

Proper shipping name

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, 4,4'-METHYLENEDIANILINE)

(ADR/RID)

### LAPKON HSG HARDENER (PART-B)

 $\begin{array}{c} \textbf{Proper shipping name (IMDG)} \ \ \text{POLYAMINES}, \ \ \text{LIQUID}, \ \ \text{CORROSIVE}, \ \text{N.O.S.} \ \ \text{(CONTAINS ISOPHORONEDIAMINE, 4,4'-METHYLENEDIANILINE, EPOXY RESIN (Type A) (Number average MW <= 700 ))} \end{array}$ 

Proper shipping name (ICAO) POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, 4,4'-METHYLENEDIANILINE)

**Proper shipping name (ADN)** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, 4,4'- METHYLENEDIANILINE)

### Transport hazard class(es)

ADR/RID class 8 ADR/RID classification code C7 ADR/RID label 8 8 **IMDG class** ICAO class/division 8 **ADN class** 8

#### **Transport labels**



#### Packing group

ADR/RID packing group Ш IMDG packing group Ш ICAO packing group Ш ADN packing group II

#### **Environmental hazards**

Environmentally hazardous substance/marine pollutant



### Special precautions for user

18. Alkalis **IMDG** Code segregation

group

**EmS** F-A, S-B

**ADR transport category** 2 **Emergency Action Code** 2X **Hazard Identification Number** 80 (ADR/RID)

**Tunnel restriction code** 

(E)

### Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### LAPKON HSG HARDENER (PART-B)

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** The Manufacture, storage and import of hazardous chemicals rules 1989.

**EU** legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### **SECTION 16: Other information**

Abbreviations and acronyms

used in the safety data sheet

ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very persistent and Very Bioaccumulative

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

IARC: International Agency for Research on Cancer.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

RRN = REACH Registration Number

EC□□: 50% of maximal Effective Concentration.

LD□□: Lethal Dose to 50% of a test population (Median Lethal Dose).

**General information** Only trained personnel should use this material.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 20/02/2019

Revision

Supersedes date 07/05/2015 SDS number 21885

### LAPKON HSG HARDENER (PART-B)

Hazard statements in full H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects. H350 May cause cancer.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.