

SAFETY DATA SHEET LAPKON LV BASE (PART-A)

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

Product identifier

Product name LAPKON BASE (PART-A)

Relevant identified uses of the substance or mixture and uses advised against **Identified uses** Base component of two part epoxy grout system._

1.3. Details of the supplier of the safety data sheet

Supplier **SILKON ADDITIVES INDIA PVT**

622-P, SECTOR-38 GURUGRAM HARYANA-122001

18001236299 / 9717887038

1.4. Emergency telephone number

18001236299 / 9717887038 Emergencytelephone

SECTION 2: Hazards identification

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

Flam. Liq. 3 - H226 **Physical hazards**

Health hazards Skin Irrit. 2-H315 Eye Irrit. 2-H319 Skin Sens. 1-H317 Muta. 2-H341 Carc. 2-H351

Environmental hazards Aquatic Chronic 2 - H411

Label elements

Hazard pictograms









Signal word

Warning

Hazard statements H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water or 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. P403+P235 Store in a well-ventilated place. Keep cool.

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

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

≤ 700), BUTYL GLYCIDYL ETHER

Supplementary precautionary

statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P233

Keep container tightly closed.
P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P308+P313 IF exposed or concerned: Get medical advice/ attention. 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.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. 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

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

60-100%

(number average molecular weight ≤ 700)

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

2119456619-26-XXXX

Classification

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

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BUTYL GLYCIDYL ETHER 5-10%

CAS number: 2426-08-6 EC number: 219-376-4

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4-H332 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 STOT SE 3 - H335 Aquatic Chronic 3 - H412

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 Immediately remove contaminated clothing. Contaminated clothing and shoes must be

discarded.

Inhalation Remove affected person from source of contamination. 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.

Ingestion Do Not induce vomiting. Get medical attention immediately. Promptly get affected person to drink

large volumes of water to dilute the swallowed chemical.

Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use an approved skin cleanser. Preferably, use a cleanser based on polyethylene glycol. Get medical attention promptly if symptoms occur afterwashing.

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

Treat symptomatically. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Keep affected person under observation. **General information**

Inhalation Upper respiratory irritation. May cause sensitisation by inhalation.

Ingestion May cause stomach pain or vomiting

Skin contact May cause severe skin irritation as well as skin sensitisation

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. Suitable extinguishing media

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

media

Special hazards arising from the substance or mixture

LAPKON LV BASE (PART-A)



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

Hazardous combustion

products

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen.

Advice for firefighters

Control run-off water by containing and keeping it out of sewers and watercourses.

Protective actions during

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

Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate. In case of spills, beware of slippery floors and Personal precautions

surfaces

Environmental precautions

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 appropriate regulatory body.

Methods and material for containment and cleaning up

Stop leak if possible without risk. DO NOT touch spilled material! Clean-up personnel should use Methods for cleaning up

respiratory and/or liquid contact protection.

Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or

earth and place into containers. Inform
Authorities if large amounts are involved. Do not seal the containers. Keep damp and in the open

air for at least seven days.

Reference to other sections

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

SECTION 7: Handling and storage

Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Avoid inhalation of vapours. Good personal hygiene

procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Contaminated clothing and shoes must be discarded.

Conditions for safe storage, including any incompatibilities

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

Storage class Flammable liquid 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

8.1. Control parameters

Occupational exposure limits

BUTYL GLYCIDYL ETHER

Long-term exposure limit (8-hour TWA): WEL 25 ppm 135 mg/m³





WEL = Workplace Exposure Limit

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

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

PNEC -Freshwater; 0.006 mg/l

8.2. Exposure controls

Protective equipment







Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

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

Hand protection Wear protective gloves made of the following material: Nitrile rubber.

Hygiene measures Provide eyewash station and safety shower. Discard contaminated shoes and clothing. Do not eat,

drink or smoke when using this product.

Respiratory protection Gas filter, type A2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Colourless.

Odour Characteristic.

Initial boiling point and range $>200 \,^{\circ}\text{C}$ Flash point $>150 \,^{\circ}\text{C}$ Relative density $1.12 \,\text{at} \, 20 \,^{\circ}\text{C}$

Solubility(ies) Immiscible with water.

Explosive properties Not considered to be explosive.

Explosive under the influence Not considered to be explosive.

of a flame

Oxidising properties Does not meet the criteria for classification as oxidising. 9.2.

Other information

Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Alkalis. Acids. Amines. 10.2.

Chemical stability

Stability Stable at normal ambient temperatures.

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Possibility of hazardous reactions

Possibility of hazardous

Reacts violently with strong acids.

reactions

Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects The toxological assessment is based on a knowledge of the toxicity of the product's

components.

Acute toxicity - oral

ATE oral (mg/kg) 5,555.56

Acute toxicity - inhalation

50,000.0 ATE inhalation (gases ppm) ATE inhalation (vapours mg/l) 122.22 16.67

ATE inhalation (dusts/mists

mg/l)

Inhalation Harmful by inhalation. May cause respiratory irritation. Vapours may cause headaches,

dizziness and central nervous system depression.

Harmful if swallowed. May be fatal if swallowed and enters airways. Ingestion

Skin contact Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Eye contact May cause severe eye irritation.

Acute and chronic health

hazards

May cause cancer.

Toxicological information on ingredients.

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

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Acute toxicity dermal

(LD□□ mg/kg)

20,000.0

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.

SECTION 12: Ecological information

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

long-term adverse effects in the aquatic environment.

Toxicity

Toxicity toxic to aquatic life.

Acute aquatic toxicity

Acute toxicity-fish LC50: > 100 mg/l (Danio rerio (zebra fish), 96 h)

EC50: > 100 mg/l (Daphnia magna (Water flea), 48 h) Acute toxicity - aquatic

invertebrates

Acute toxicity - aquatic plants ErC50: 199 mg/l, (scenedesmus subspicatus, 72 h)

EC50: 842 mg/l, (activated sludge, 3 h) Acute toxicity -

microorganisms

Ecological information on ingredients.

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

Toxicity Ecotoxic to fish/daphnia/algae

Acute aquatic toxicity

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

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

plants

Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.

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

Persistence and degradability

The product is not readily biodegradable.

Bioaccumulative potential

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Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

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

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) epoxy resin (number average molecular weight ≤ 700)

Mobility The product has poor water-solubility.

Adsorption/desorption

coefficient

Water - Koc: 445 @ °C

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

Ecological information on ingredients.

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 The generation of waste should be minimised or avoided wherever possible.

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) 1993 UN No. (IMDG) 1993 UN No. (ICAO) 1993 UN No. (ADN) 1993

UN proper shipping name

Proper shipping name FLAMMABLE LIQUID, N.O.S. (CONTAINS BUTYL GLYCIDYL ETHER, reaction product:

(ADR/RID) bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS BUTYL GLYCIDYL ETHER, reaction product: bisphenol-A-(epichlorhydrin) epoxyresin (number average molecular weight≤ 700))





Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS BUTYL GLYCIDYL ETHER, reaction product: bisphenol-A-(epichlorhydrin) epoxyresin (number average molecular weight ≤700))

FLAMMABLE LIQUID, N.O.S. (CONTAINS BUTYL GLYCIDYL ETHER, reaction product: bisphenol-A-(epichlorhydrin) epoxyresin (number average molecular weight≤ 700)) Proper shipping name (ADN)

Transport hazard class(es)

ADR/RID class 3 ADR/RID classification code F1 ADR/RID label 3 **IMDG class** 3 ICAO class/division 3 **ADN class** 3

Transport labels



Packing group

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

Environmental hazards

Environmentally hazardous substance/marine pollutant



Special precautions for user

EmS F-E, S-E

ADR transport category 3 **Emergency Action Code** •3W **Hazard Identification Number** 30

(ADR/RID)

Tunnel restriction code (D/E)

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

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

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

Revision: 4A Revision date: 14/10/2019





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 Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet DMEL: Derived Minimal Effect Level. DNEL: Derived No Effect Level.

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

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

Revision date 14/10/2019

Revision 4A

Supersedes date 07/12/2015 SDS number 23565

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed. 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. H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
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.

SILKON ADDITIVES INDIA PVT LTD



SAFETY DATA SHEET **LAPKON LV HARDENER** (PART-B)

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

Product identifier

Product name LAPKON LV HARDENER (PART-B)

Relevant identified uses of the substance or mixture and uses advised against **Identified uses** Hardener component of two part epoxy system

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

18001236299 / 9717887038 Emergencytelephone

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Label elements

Hazard pictograms







Signal word Danger

H302 Harmful if swallowed. **Hazard statements**

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.



FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE , ISOPHORONEDIAMINE , 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL **Contains**

Supplementary precautionary

statements

P260 Do not breathe vapour/ spray. P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P302+P352 IF

ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER/ doctor.

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.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE

30-60%

CAS number: 68953-36-6

EC number: 203-986-2

Classification

Skin Sens. 1 - H317 Aquatic

Chronic 2 - H411

ISOPHORONEDIAMINE 10-30%

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



TETRAETHYLENEPENTAMINE 5-10%

CAS number: 112-57-2 EC number: 203-986-2

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

5-10%

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 Consult a physician for specific advice.

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

breathing.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting.

Skin contactRinse immediately with plenty of water. Continue to rinse for at least 10 minutes. **Eye contact**Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

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

of exposure.

Inhalation Dizziness. Difficulty in breathing.

IngestionMay cause discomfort. May cause stomach pain or vomiting.Skin contactMay cause allergic reaction as well as serious Skin burns.

Eye contact

Can cause serious Eye damage if come in contact

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

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

Unsuitable extinguishing

media

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



Special hazards arising from the substance or mixture

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

corrosive. No unusual fire or explosion hazards noted.

Hazardous combustion

products

No known hazardous decomposition products.

No specific firefighting precautions known. Advice for firefighters

Protective actions during

firefighting

Use protective equipment appropriate for surrounding materials.

Special protective equipment

for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes and prolonged skin contact. Do not touch or walk into spilled material. 6.2.

Environmental precautions

Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or **Environmental precautions**

watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Label the containers

containing waste and contaminated materials and remove from the area as soon as possible. Collect and dispose of spillage as indicated in Section 13.

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

Usage precautions Avoid contact with skin and eyes. Change contaminated clothing. Do not eat, drink or smoke when

using this product.

Advice on general

Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

occupational hygiene

Conditions for safe storage, including anyincompatibilities

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

Storage class Corrosive 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

Ingredient comments WEL = Workplace Exposure Limits

ISOPHORONEDIAMINE (CAS: 2855-13-2)



PNEC - marine water; 0.006 mg/l

- Fresh water; 0.06 mg/l

- Soil; 1.121 mg/kg

TETRAETHYLENEPENTAMINE (CAS: 112-57-2)

Workers - Dermal; Long term systemic effects: 0.74 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 1.29 mg/m 3 **DNEL**

Exposure controls

Protective equipment







Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Personal protection

Eye/face protection

protection

Wear tight-fitting, chemical splash goggles or face shield. (conform EN 166) Hand

Nitrile gloves are recommended.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not eat, drink or smoke when using this product.

Respiratory protection Gas filter, type A2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Clear liquid. **Appearance** Colour Colourless. Odour Amine Like Initial boiling point and range >230°C

Flash point > 100°C Closed cup. Vapour density < 0.01 Pa (at 20 □) Relative density 0.950 @ 23 C Solubility(ies) Soluble in water.

Explosive under the influence

of a flame

Not considered to be explosive.

Does not meet the criteria for classification as oxidising. 9.2. **Oxidising properties**

Other information

Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

SILKON ADDRIVES INDIR PYT LTD

LAPKON LV HARDENER (PART-B)

Reactivity The following materials may react with the product: Acids. Alkalis. 10.2.

Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

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 excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended.

products

SECTION 11: Toxicological information

$\underline{\textbf{11.1.Information} on toxicological effects}$

Acute toxicity - oral

ATE oral (mg/kg) 1,356.15

Acute toxicity - dermal

ATE dermal (mg/kg) 3,425.92

Inhalation Dizziness. Difficulty in breathing.

IngestionMay cause discomfort. May cause stomach pain or vomiting.Skin contactMay cause allergic reaction as well as serious skin burnsEye contactCan cause serious Eye damage if come in contact.

Target organs Eyes, Lungs, Respiratory, Skin.

<u>Toxicological information on ingredients.</u>

ISOPHORONEDIAMINE

Acute toxicity - oral

Acute toxicity oral

1,030.0

(LD□□ mg/kg)

Species Rat ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal

1,840.0

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

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



TETRAETHYLENEPENTAMINE

Acute toxicity - oral

Acute toxicity oral 2,000.0

(LD□□ mg/kg)

Species Rat ATE oral (mg/kg) 2,000.0

Acute toxicity - dermal

Acute toxicity dermal

1,500.0

(LD□□ mg/kg)

Species Rabbit
ATE dermal (mg/kg) 1,500.0

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - oral

ATE oral (mg/kg) 500.0

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Expected to be ecotoxic to fish/daphnia/algae.

Ecological information on ingredients.

FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE

Acute aquatic toxicity

Acute toxicity-fish LC□□, 96 hours: 2.6 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

EC□□, 48 hours: 0.3-4.2 mg/l, Daphnia magna

invertebrates

EC□□, 96 hours: 1.1-2.2 mg/l, Algae

Acute toxicity - aquatic

plants

<u>ISOPHORONEDIAMINE</u>

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

TETRAETHYLENEPENTAMINE

Acute aquatic toxicity

Acute toxicity-fish LC□□, 96 hours: >100 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic

invertebrates

EC□□, 48 hours: 10-100 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 Expected to be not readily biodegradable.

Ecological information on ingredients.

ISOPHORONEDIAMINE

Persistence and

degradability

The product is not readily biodegradable.

Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.

ISOPHORONEDIAMINE

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

Partition coefficient log Kow: 0.99

Mobility in soil

Mobility Soluble inwater. 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

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) 2735 UN No. (IMDG) 2735 UN No. (ICAO) 2735 UN No. (ADN) 2735

UN proper shipping name

Proper shipping name

(ADR/RID)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE)



Propershipping name (IMDG) POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE, TETRAETHYLENEPENTAMINE)

Proper shipping name (ICAO) POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE)

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, FATTY ACIDS, TALL OIL, OLIGOMERIC REACTION PRODUCTS WITH TETRAETHYLENE PENTAMINE) Proper shipping name (ADN)

Transport hazard class(es)

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

Transport labels



Packing group

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

Environmental hazards

Environmentally hazardous substance/marine pollutant



Special precautions for user

18. Alkalis **IMDG** Code segregation

group

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

ADR transport category 2 2X **Emergency Action Code Hazard Identification Number** 80

(ADR/RID)

Tunnel restriction code (E)

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

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).

Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet IARC: International Agency for Research on Cancer. IATA: International Air Transport Association.

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 24/10/2019

Revision

Supersedes date 07/12/2015 SDS number 23566

Hazard statements in full 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.

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.