

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 1

Revision: 03.06.2019

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

**Product identifier****Trade name** Weber.Knight Armor Resin Component A**Safety data sheet no.:** XXP015300a**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the mixture** Construction chemicals**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Saint-Gobain India Pvt. Ltd.

Sigapi Achi Building, Floor no. 7

18/3 Rukmini Lakshmipathy Road, Egmore

Chennai- 600008

Tamil Nadu, India.

Phone: +912240212121

**Emergency telephone number:**

+912240212121(Board line number)

In case of emergency: +918451931666, +919324391824

### 2 Hazards identification

**Classification of the substance or mixture**

Skin Irrit. 2            H315 Causes skin irritation.  
Eye Irrit. 2A        H319 Causes serious eye irritation.  
Skin Sens. 1        H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Label elements****GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

**Hazard pictograms**

GHS07

**Signal word** Warning**Hazard-determining components of labelling:**Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq$  700)

Cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

**Hazard statements**

H315 Causes skin irritation.

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H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves / eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Does not contain PBT substances.

**vPvB:** Does not contain vPvB substances.

### 3 Composition/information on ingredients

#### Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with non hazardous additions.

#### Dangerous components:

CAS: 25068-38-6 NLP: 500-033-5	Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Acute Tox. 5, H313 Specific concentration limits: Skin Irrit. 2; H315: C $\geq$ 5 % Eye Irrit. 2; H319: C $\geq$ 5 %	10-20%
CAS: 30583-72-3 NLP: 500-070-7	Cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane ⚠ Skin Sens. 1B, H317	2-5%
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	1-2%
CAS: 41556-26-7 EINECS: 255-437-1	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313	0.1-1%

**SVHC** Void

**Additional information** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

#### Description of first aid measures

**General information** Immediately remove any clothing soiled by the product.

#### After inhalation

Supply fresh air and to be sure call for a doctor.

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Call a doctor immediately.

**After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

**After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Rinse liquid should be tempered (20-30°C).

**After swallowing** If symptoms persist consult a doctor.

**Information for doctor****Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

No further relevant information available.

## 5 Firefighting measures

**Extinguishing media****Suitable extinguishing agents**

Use fire extinguishing methods suitable to surrounding conditions.

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

No further relevant information available.

**Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

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

Particular danger of slipping on leaked/spilled product.

**Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Suppress gases/fumes/haze with water spray.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**Handling****Precautions for safe handling**

Keep receptacles tightly sealed.

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Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:** No special measures required.

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

**Storage**

**Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground.

Store only in unopened original receptacles.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

**Recommended storage temperature:** 5-30°C.

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

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

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**DNELs**

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

Oral	Derived No Effect Level	0.75 mg/kgxday (consumer systemic long term value) 0.75 mg/kgxday (consumer systemic short term value)
Dermal	Derived No Effect Level	8.33 mg/kgxday (worker systemic long term value) 8.33 mg/kgxday (worker systemic short term value) 3.571 mg/kgxday (consumer systemic long term value) 3.571 mg/kgxday (consumer systemic short term value)
Inhalative	Derived No Effect Level	12.3 mg/m <sup>3</sup> (worker systemic long term value) 12.3 mg/m <sup>3</sup> (worker systemic short term value)

**CAS: 30583-72-3 Cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane**

Oral	Derived No Effect Level	3.3 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	5.5 mg/kgxday (worker systemic long term value) 3.3 mg/kgxday (consumer systemic long term value)

**Additional information:**

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

**Respiratory protection:**

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:** Protective gloves.

**Eye protection:** Safety glasses.

**Body protection:** Protective work clothing.

**9 Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

<b>Form:</b>	Pasty
<b>Colour:</b>	Light
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

<b>pH-value:</b>	Not applicable. Not determined.
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**Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	152 °C

<b>Flash point:</b>	264-268 °C
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<b>Flammability (solid, gas):</b>	Not applicable.
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<b>Ignition temperature:</b>	184 °C
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<b>Decomposition temperature:</b>	Not determined.
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<b>Auto-ignition temperature:</b>	Product is not selfigniting.
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<b>Explosive properties:</b>	Product does not present an explosion hazard.
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**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

<b>Oxidising properties</b>	Not determined.
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<b>Vapour pressure:</b>	Not determined.
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<b>Density:</b>	Not determined
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<b>Bulk density:</b>	Not applicable.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

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<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
<b>Segregation coefficient (n-octanol/water) log Pow:</b>	Not determined.
<b>Viscosity:</b> dynamic: kinematic:	Not determined. Not determined.
<b>Solvent separation test:</b>	Not determined
<b>Solvent content:</b> Organic solvents: EU-VOC (%) EU-VOC (g/L)	0.0 % 0.27 % 2.7 g/l
<b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

**Reactivity** Not reactive under normal conditions of use  
**Chemical stability** Stable at recommended storage conditions  
**Thermal decomposition / Conditions to be avoided:** Stable at environment temperature.  
**Possibility of hazardous reactions**  
 Reacts with acids, alkalis and oxidizing agents  
 Reacts with strong alkali  
 Reacts with strong oxidizing agents  
 Reacts with amines  
 Exothermic polymerisation.  
**Conditions to avoid** No further relevant information available.  
**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:**  
 Possible in traces.  
 Carbon monoxide and carbon dioxide

### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity**

**LD/LC50 values relevant for classification:**

Components	Type	Value	Species
<b>CAS: 25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)</b>			
Oral	LD50	>5,000 mg/kg	(Rat)
Dermal	LD50	>2,000 mg/kg	(Rabbit)

**Primary irritant effect:**

**Skin corrosion/irritation** Irritant to skin and mucous membranes.

**Serious eye damage/irritation**

Strong irritant with the danger of severe eye injury.

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Irritating effect.

**Respiratory or skin sensitisation** Sensitisation possible through skin contact.

**Additional toxicological information:**

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

Irritant

**12 Ecological information**

**Toxicity**

**Aquatic toxicity:**

Harmful to aquatic life with long lasting effects (H412).

Harmful to aquatic life with long lasting effects.

**Type of test Effective concentration Method Assessment**

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

LC50/96h	2 mg/l (Leuciscus idus (Orfe)) 1.3 mg/l (Fish)
EC50/24h	4.6 mg/l (Daphnia magna)
EC50/48h	1.8 mg/l (Daphnia magna)
EC50/96h	220 mg/l (Selenastrum capricornutum (Green algae))
NOEC (21d)	0.3 mg/l (Daphnia magna)

**Persistence and degradability** No further relevant information available.

**Behaviour in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

**Results of PBT and vPvB assessment**

**PBT:** Does not contain PBT substances.

**vPvB:** Does not contain vPvB substances.

**Other adverse effects** No further relevant information available.

**13 Disposal considerations**

**Waste treatment methods**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Dispose of the product in accordance with national and local regulations.

**Uncleaned packaging:**

**Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Disposal must be made according to official regulations.

**14 Transport information**

<b>UN-Number</b> ADR, IMDG, IATA	Void
<b>UN proper shipping name</b> ADR, IMDG, IATA	Void
<b>Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	Void
<b>Packing group</b> ADR, IMDG, IATA	Void
<b>Environmental hazards:</b>	Not applicable.
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	Void

**15 Regulatory information**

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

Regulation (EC) No 1907/2006 (REACH) (Candidate List, Annexes XIV and XVII)

Regulation (EC) No 1272/2008 (CLP)

Directive 2004/42/CE (VOC), cf. section 9

**GHS label elements**

cf. section 2

The product is classified and labelled according to the Globally Harmonised System (GHS).

**Hazard pictograms**



GHS07

**Signal word** Warning

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**Hazard-determining components of labelling:**

Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq$  700)

Cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

**Department issuing SDS:** Research & Development

**Contact:**

S. Nagaraju

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e-mail: nagaraju.s@saint-gobain.com

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organisation  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern (REACH regulation)  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 5: Acute toxicity – Category 5  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.

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