

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

### 1 Identification

- **Product identifier**
- **Trade name:** SikaBiresin AP100 (PROSEAL RESIN)
- **Article number:** I852088-1
- **Application of the substance / the mixture** Epoxy resin
- **Details of the supplier of the safety data sheet**  
Sika Advanced Resins, US  
EHS Department
- **Manufacturer/Supplier:**  
Supplier's Name: Sika Advanced Resins, US  
Headquarters:  
30800 Stephenson Hwy  
Madison Heights, MI 48071  
USA  
  
advancedresins.ehs@us.sika.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
During normal opening times: +1 (248) 588-2270  
CHEMTREC 24-hour Emergency: +1 (800) 424-9300

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

- Muta. 1B H340 May cause genetic defects.  
Carc. 1B H350 May cause cancer.  
Repr. 1B H360 May damage fertility or the unborn child.



GHS07

- 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.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 1)

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Reaction Product of Bisphenol A and Epichlorohydrin*  
*Solvent naphtha (petroleum), light arom.*  
*N-methyl-2-pyrrolidone*  
*1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane*

· **Hazard statements**

*Causes skin irritation.*  
*Causes serious eye irritation.*  
*May cause an allergic skin reaction.*  
*May cause genetic defects.*  
*May cause cancer.*  
*May damage fertility or the unborn child.*

· **Precautionary statements**

*Avoid breathing dust/fume/gas/mist/vapors/spray*  
*Avoid breathing dust/fume/gas/mist/vapors/spray*  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Specific treatment (see on this label).*  
*If skin irritation or rash occurs: Get medical advice/attention.*  
*If eye irritation persists: Get medical advice/attention.*  
*Wash contaminated clothing before reuse.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



*Health = 2*  
*Fire = 1*  
*Reactivity = 0*

· **HMIS-ratings (scale 0 - 4)**



*Health = \*2*  
*Fire = 1*  
*Reactivity = 0*

(Contd. on page 3)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 2)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5	Reaction Product of Bisphenol A and Epichlorohydrin	20-50%
CAS: 17557-23-2 EINECS: 241-536-7	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	≥5-<10%
CAS: 67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	1-5%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1-<3%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.	0.1-1%
CAS: 872-50-4 EINECS: 212-828-1	N-methyl-2-pyrrolidone	0.1-1%
CAS: 84852-15-3 EINECS: 284-325-5	4-nonylphenol, branched	≥0.1-<1%

### 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.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult 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.

(Contd. on page 4)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

Trade name: SikaBiresin AP100 (PROSEAL RESIN)

(Contd. of page 3)

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose 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.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

25068-38-6	Reaction Product of Bisphenol A and Epichlorohydrin	90 mg/m <sup>3</sup>
67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	120 mg/m <sup>3</sup>
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	9.3 mg/m <sup>3</sup>
872-50-4	N-methyl-2-pyrrolidone	30 ppm
84852-15-3	4-nonylphenol, branched	3.9 mg/m <sup>3</sup>

· **PAC-2:**

25068-38-6	Reaction Product of Bisphenol A and Epichlorohydrin	990 mg/m <sup>3</sup>
67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	1,300 mg/m <sup>3</sup>
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	100 mg/m <sup>3</sup>
872-50-4	N-methyl-2-pyrrolidone	32 ppm
84852-15-3	4-nonylphenol, branched	43 mg/m <sup>3</sup>

· **PAC-3:**

25068-38-6	Reaction Product of Bisphenol A and Epichlorohydrin	5,900 mg/m <sup>3</sup>
67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	7,900 mg/m <sup>3</sup>

(Contd. on page 5)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 4)

2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	230 mg/m <sup>3</sup>
872-50-4	N-methyl-2-pyrrolidone	190 ppm
84852-15-3	4-nonylphenol, branched	260 mg/m <sup>3</sup>

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

**872-50-4 N-methyl-2-pyrrolidone**

TLV	BEI
WEEL	Long-term value: 10 ppm
	Skin

- **Ingredients with biological limit values:**

**872-50-4 N-methyl-2-pyrrolidone**

BEI	100 mg/L
	Medium: urine
	Time: end of shift
	Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 6)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 5)

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

*Keep away from foodstuffs, beverages and feed.*

*Immediately remove all soiled and contaminated clothing.*

*Wash hands before breaks and at the end of work.*

*Store protective clothing separately.*

*Avoid contact with the eyes and skin.*

- **Breathing equipment:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*

- **Protection of hands:**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

- **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

- **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

- **Eye protection:**



Tightly sealed goggles

### \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Pasty

**Color:** White

- **Odor:** Amine-like

- **Odor threshold:** Not determined.

(Contd. on page 7)

US

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 6)

· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	>200 °C (>392 °F)
· <b>Flash point:</b>	110 °C (230 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	0.94 g/cm <sup>3</sup> (7.84 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	1.3 %
<b>VOC content:</b>	1.34 %
	12.6 g/l / 0.11 lb/gal
<b>Solids content:</b>	15.7 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.

(Contd. on page 8)

US

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 7)

- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	3
13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide, chemically prepared	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

(Contd. on page 9)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**


(Contd. of page 8)

- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

- **UN-Number**
- **DOT** not regulated
- **IMDG, IATA** UN3082
- **UN proper shipping name**
- **DOT** not regulated
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Epoxy phenol novolac resin), MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, Epoxy phenol novolac resin)
- **Transport hazard class(es)**
- **DOT**
- **Class** not regulated
- **IMDG, IATA**
- 
- **Class** 9 Miscellaneous dangerous substances and articles

(Contd. on page 10)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 9)

· <b>Label</b>	9
· <b>Packing group</b>	
· <b>DOT</b>	not regulated
· <b>IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	Yes
	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN, EPOXY PHENOL NOVOLAC RESIN), 9, III

### 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>		
None of the ingredients is listed.		
· <b>Section 313 (Specific toxic chemical listings):</b>		
872-50-4	N-methyl-2-pyrrolidone	
95-63-6	1,2,4-trimethylbenzene	
84852-15-3	4-nonylphenol, branched	
· <b>TSCA (Toxic Substances Control Act):</b>		
25068-38-6	Reaction Product of Bisphenol A and Epichlorohydrin	ACTIVE
28064-14-4	Epoxy phenol novolac resin Reaction product of Phenol-Formaldehyde Novolac with Epichlorohydrin	ACTIVE
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	ACTIVE
65997-17-3	Fibrous Glass	ACTIVE
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
	Alkylphenol Blocked Polyisocyanate	*
67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	ACTIVE

(Contd. on page 11)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 10)

2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	ACTIVE
108-83-8	2,6-dimethylheptan-4-one	ACTIVE
64742-95-6	Solvent naphtha (petroleum), light arom.	ACTIVE
19549-80-5	4,6-Dimethyl-2-heptanone	ACTIVE
	Polyacrylate based not additive	ACTIVE
7631-86-9	silicon dioxide, chemically prepared	ACTIVE
21645-51-2	aluminium hydroxide	ACTIVE
	Modified urea	ACTIVE
872-50-4	N-methyl-2-pyrrolidone	ACTIVE
95-63-6	1,2,4-trimethylbenzene	ACTIVE
84852-15-3	4-nonylphenol, branched	ACTIVE

**· Chemicals regulated by TSCA Section 12(b)**

None of the ingredients is listed.

**· Chemical regulated by TSCA 5(a)(2)rule:**

None of the ingredients is listed.

**· Hazardous Air Pollutants**

None of the ingredients is listed.

**· Proposition 65**

**· Chemicals known to cause cancer:**

13463-67-7 titanium dioxide

98-82-8 cumene

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

872-50-4 N-methyl-2-pyrrolidone

**· Carcinogenic categories**

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7 titanium dioxide

**· Listed in CWC Regulations**

None of the ingredients is listed.

**· GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 12)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 11)

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Reaction Product of Bisphenol A and Epichlorohydrin*  
*Solvent naphtha (petroleum), light arom.*  
*N-methyl-2-pyrrolidone*  
*1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane*

· **Hazard statements**

*Causes skin irritation.*  
*Causes serious eye irritation.*  
*May cause an allergic skin reaction.*  
*May cause genetic defects.*  
*May cause cancer.*  
*May damage fertility or the unborn child.*

· **Precautionary statements**

*Avoid breathing dust/fume/gas/mist/vapors/spray*  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Specific treatment (see on this label).*  
*If skin irritation or rash occurs: Get medical advice/attention.*  
*If eye irritation persists: Get medical advice/attention.*  
*Wash contaminated clothing before reuse.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.*  
*Exceptions can be made by the authorities in certain cases.*

· **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.*

· **Date of preparation / last revision** 05/11/2020 / 8

(Contd. on page 13)

US

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/11/2020

Reviewed on 05/11/2020

**Trade name: SikaBiresin AP100 (PROSEAL RESIN)**

(Contd. of page 12)

**· Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*  
*DOT: US Department of Transportation*  
*IATA: International Air Transport Association*  
*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)*  
*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*VOC: Volatile Organic Compounds (USA, EU)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*NIOSH: National Institute for Occupational Safety*  
*OSHA: Occupational Safety & Health*  
*TLV: Threshold Limit Value*  
*PEL: Permissible Exposure Limit*  
*REL: Recommended Exposure Limit*  
*BEI: Biological Exposure Limit*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*  
*Skin Sens. 1: Skin sensitisation – Category 1*  
*Muta. 1B: Germ cell mutagenicity – Category 1B*  
*Carc. 1B: Carcinogenicity – Category 1B*  
*Repr. 1B: Reproductive toxicity – Category 1B*

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

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