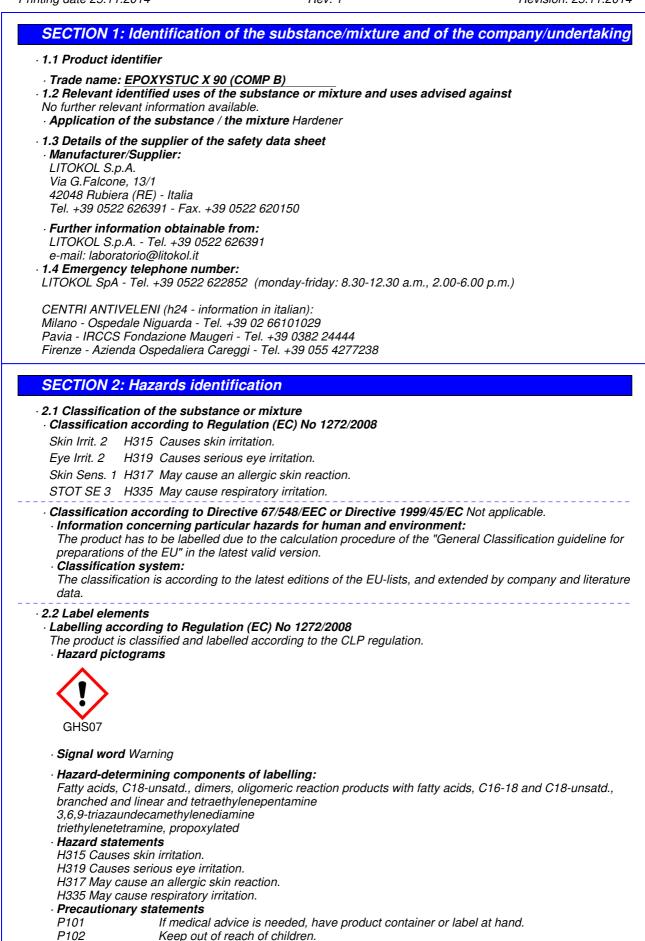
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	(Cor	atd of page
P103 Read la	abel before use.	ntd. of page
P261 Avoid L	breathing dust/fume/gas/mist/vapours/spray.	
	protective gloves/protective clothing/eye protection/face protection.	
	YES: Rinse cautiously with water for several minutes. Remove contact	lenses, it
	t and easy to do. Continue rinsing.	
	ff contaminated clothing and wash before reuse.	
	ocked up.	
	e of contents/container in accordance with local/regional/national/intern	ational
2.3 Other hazards		
· Results of PBT and vPvB	assessment	
• PBT: Not applicable.		
• vPvB: Not applicable.		
	tion/information on ingredients	
3.2 Mixtures	tion/information on ingredients	
3.2 Mixtures • Description: Mixture: const	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine	50-75%
3.2 Mixtures • Description: Mixture: const • Dangerous components:	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine Xi R36/37/38	50-759
3.2 Mixtures • Description: Mixture: cons. • Dangerous components: CAS: 157707-76-1	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine Xi R36/37/38 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
3.2 Mixtures • Description: Mixture: cons. • Dangerous components: CAS: 157707-76-1 CAS: 112-57-2	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine X I R36/37/38 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 3,6,9-triazaundecamethylenediamine	-
3.2 Mixtures • Description: Mixture: consi • Dangerous components: CAS: 157707-76-1 CAS: 112-57-2 EINECS: 203-986-2	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 3,6,9-triazaundecamethylenediamine C R34; Xn R21/22; Xi R43; W N R51/53	-
3.2 Mixtures • Description: Mixture: consi • Dangerous components: CAS: 157707-76-1 CAS: 112-57-2 EINECS: 203-986-2	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine X I R36/37/38 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 3,6,9-triazaundecamethylenediamine	-
3.2 Mixtures • Description: Mixture: consi • Dangerous components: CAS: 157707-76-1 CAS: 112-57-2 EINECS: 203-986-2	isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 3,6,9-triazaundecamethylenediamine C R34; Xn R21/22; Xi R43; N R51/53 Skin Corr. 1B, H314; Aguatic Chronic 2, H411; Acute Tox.	1-2.5%
3.2 Mixtures • Description: Mixture: consi • Dangerous components: CAS: 157707-76-1 CAS: 112-57-2 EINECS: 203-986-2 Index number: 612-060-00-0	 isting of the following components. Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and tetraethylenepentamine Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 3,6,9-triazaundecamethylenediamine C R34; Xn R21/22; Xi R43; N R51/53 Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 	50-75% - 1-2.5%

· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

. 5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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Trade name: EPOXYSTUC X 90 (COMP B)

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.
- · 7.2 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: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

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

112-57-2 3,6,9-triazaundecamethylenediamine

WEEL (USA) Long-term value: 5 mg/m³ Skin; DSEN

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

· 8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Protection of hands:

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: Not required.

SECTION 9: Physical and chemical properties		
• 9.1 Information on basic physical and chemical properties • General Information • Appearance:		
 Form: Colour: Odour: Odour: Odour threshold: 	Solid According to product specification Characteristic Not determined.	
· pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 200 ℃	
· Flash point:	130 °C	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
· Decomposition temperature:	Not determined.	
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Trade name: EPOXYSTUC X 90 (COMP B)

		(Contd. of page 3)
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
· Density at 20 ℃:	0.98 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
· water:	Insoluble.	
· Partition coefficient (n-octanol/wa	nter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
· Kinematic:	Not applicable.	
· Solvent content:		
· Organic solvents:	0.0 %	
· Solids content:	100.0 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. • 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

112-57-2 3,6,9-triazaundecamethylenediamine

Dermal LD50 660 mg/kg (rabbit)

· Primary irritant effect:

• on the skin: No irritant effect.

· on the eye: No irritating effect.

· Sensitisation: No sensitising effects known.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
 - · Additional ecological information:
 - General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.

· vPvB: Not applicable.

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Trade name: EPOXYSTUC X 90 (COMP B)

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
 14.5 Environmental hazards: Marine pollutant: 	No	
 14.6 Special precautions for user Danger code (Kemler): 	Not applicable.	
 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	ex II of Not applicable.	
· UN "Model Regulation":	UN-, -	

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • National regulations:

· Other regulations, limitations and prohibitive regulations

The data and the informations reported in the present Material Safety Data Sheet are consistent to the Directives 1967/548/EEC, 1999/45/EC, 76/769/EEC, to the Regulation 1907/2006/EC (REACH), 1272/2008/EC (CLP) and to what prescribed by the in force regulation in matter of classification, packaging and labelling of dangerous substances and preparations. Anyway, it's recommended to the user the need to verify and to comply with the specific national and local laws in matter of hazardous activities and of environmental protection (e.g.: gassy, liquid and solid emissions), that aren't in the object of this document. Compilation of Safety Data Sheet: Reg.UE n.453/2010 (amending Reg.EC n.1907/2006, Annex II)

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

SECTION 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

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.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R21	Harmful in contact with skin.
R21/22	Harmful in contact with skin and if swallowed.

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Trade name: EPOXYSTUC X 90 (COMP B)		
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R34	Causes burns.	
R36/37/3	38 Irritating to eyes, respiratory system and skin.	
R43	May cause sensitisation by skin contact.	
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environme	nt
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic	
1152/55	environment.	
O a set a star 1 /		
	ITOKOL S.p.A.	
	tions and acronyms:	
	gistration, Evaluation, Authorisation and Restriction of Chemicals	
	cation, Labelling and Packaging l européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International	
	angerous Goods by Road)	
	ational distitute Control of the Dangerous Goods	
	tional Air Transport Association	
	ly Harmonised System of Classification and Labelling of Chemicals	
	opean Inventory of Existing Commercial Chemical Substances	
	opean List of Notified Chemical Substances	
	cal Abstracts Service (division of the American Chemical Society) concentration. 50 percent	
	dose. 50 percent	
	Acute toxicity, Hazard Category 4	
	3: Skin corrosion/irritation, Hazard Category 1B	
	Skin corrosion/irritation, Hazard Category 2	
	erious eye damage/eye irritation, Hazard Category 2	
	: Sensitisation - Skin, Hazard Category 1 Specific target organ toxicity - Single exposure, Hazard Category 3	
	nic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
	inc 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	
•	mpared to the previous version altered.	
		CR

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RFORMANCE BUILDING PRODUCTS

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1 Identification

- Product identifier
- Trade name: EPOXYSTUK X 90 (comp A) • Application of the substance / the mixture Epoxy mortar
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 LITOKOL S.p.A.
 13/1 G.Falcone Street
 42048 Rubiera (RE)- Italy
 Tel. +39 0522 626391 Fax. +39 0522 620150
- · Information department: LITOKOL S.p.A. Email: laboratorio@litokol.it
- · Emergency telephone number:

LITOKOL S.p.A. Technical support: Tel. +39 0522 622852 (Monday - Friday: 8.30 -12.30 AM , 2.00 - 6.00 PM)

2 Hazard(s) 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.

Label elements

• **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms**



- · Signal word Warning
- Hazard-determining components of labeling: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- Hazard statements H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- · Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wear protective gloves.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Take off contaminated clothing.
- Wash contaminated clothing before reuse.

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

Classification system:

NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



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Trade name: EPOXYSTUK X 90 (comp A)

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· 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.

•	
Dangorous	components

Dangerous components.		
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)	5-10%
CAS: 13463-67-7		5-10%
CAS: 9003-36-5	formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.5-5%
	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	1-2.5%
	bis(isopropyl)naphthalene	1-2.5%
CAS: 8001-78-3	Castor oil, hydrogenated	1-2.5%

4 First aid measures

· Description of first aid measures

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.
- If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.

· 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 Fire fighting measures

- Extinguishing media
 - Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

· Protective equipment:

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. 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).
- 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.

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Trade name: EPOXYSTUK X 90 (comp A)

Protoctivo Action	n Criteria for Chemicals	(Contd. of page
· PAC-1:		
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)	90 mg/m3
CAS: 13463-67-7	titanium dioxide	30 mg/m3
CAS: 38640-62-9	bis(isopropyl)naphthalene	5.6 mg/m3
CAS: 14808-60-7	Quartz (SiO₂)	0.075 mg/m
· PAC-2:		
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)	990 mg/m
CAS: 13463-67-7	titanium dioxide	330 mg/m
CAS: 38640-62-9	bis(isopropyl)naphthalene	61 mg/m3
CAS: 14808-60-7	Quartz (SiO₂)	33 mg/m3
· PAC-3:		
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)	5,900 mg/m
CAS: 13463-67-7	titanium dioxide	2,000 mg/m
CAS: 38640-62-9	bis(isopropyl)naphthalene	370 mg/m3
CAS: 14808-60-7	Quartz (SiO₂)	200 mg/m3

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Keep receptacles tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

- [•] 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.
- Store in cool, dry conditions in well sealed receptacles.
- · 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.

CAS: 13463-67-7 titanium dioxide

PEL	Long-term value: 15* mg/m³ *total dust
REL	See Pocket Guide App. A

- TLV Long-term value: 10 mg/m³
 - withdrawn from NIC

Regulatory information

PEL: Permissible Exposure Limits (OSHA)

- REL: Recommended Exposure Limits (NIOSH)
- TLV: Threshold Limit Values (ACGIH)

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

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· Exposure controls	
 Personal protective equipm 	
General protective and hy	
Do not eat or drink while wo	
Keep away from tobacco pro	
Keep away from foodstuffs,	
	ed and contaminated clothing.
Wash hands before breaks	
Avoid contact with the eyes	
	necessary if room is well-ventilated.
· Protection of hands:	
μη Ι	
Protective gloves	
The glove material has to be	e impermeable and resistant to the product/ the substance/ the preparation.
	ommendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.	
	rial on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves	
Rubber gloves	
Neoprene gloves	
	le gloves does not only depend on the material, but also on further marks of quality and
	o manufacturer. As the product is a preparation of several substances, the resistance of
	be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove	
The exact break through ti	me has to be found out by the manufacturer of the protective gloves and has to be
observed.	
• Eye protection:	
Coto Tightly sealed go	oggles
 Body protection: Light weight 	ght protective clothing
9 Physical and chemical	properties
Information on basic physica	al and chemical properties
General Information	
Appearance:	
· Form:	Pasty
· Color:	White
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
A I I I I I I I I I I	

ouor unconora.	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: · Lower: · Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	> 1 g/cm³ (> 8.345 lbs/gal)

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Trade name: EPOXYSTUK X 90 (comp A)

		(Contd. of page
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility wit	h	
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octa	nol/water): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic:	Not determined.	
· Other information	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 Reacts with strong acids and oxidizing agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

CAS: 14808-60-7 Quartz (SiO₂)

Information or	i toxico	logical	effects
----------------	----------	---------	---------

· Acute	toxicity:
---------	-----------

	68-38-6 rea	hat are relevant for classification: action product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular ight ≤ 700)
Oral	LD50	>2000 mg/kg (mouse)
Ulai	LDJU	30000 mg/kg (rat)
Dermal	1 050	
Dennai	LD50	>1200 mg/kg (rat)
010 10		>2000 mg/kg (rabbit)
		nnium dioxide
Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
		>6.82 mg/l (rat)
CAS: 386	40-62-9 bis	(isopropyl)naphthalene
Oral	LD50	>4000 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rat)
Inhalative	LC50 / 4h	> 5.6 mg/l (rat) (OECD 403)
CAS: 800	1-78-3 Cas	tor oil, hydrogenated
Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rat)
· Primai	ry irritant e	ffect:
		ant to skin and mucous membranes.
	e eye: Irrita	
		nsitization possible through skin contact.
		ogical information: the following dangers according to internally approved calculation methods for preparations:
· Carcin	ogenic cat	egories
·IARC	(Internatio	nal Agency for Research on Cancer)
CAS: 134	63-67-7 tita	anium dioxide

(Contd. of page 5)

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Safety Data Sheet acc. to OSHA HCS

Rev. 4

Reviewed on 11/10/2016

Trade name: EPOXYSTUK X 90 (comp A)

Printing date 12/02/2016

• NTP (National Toxicology Program)

CAS: 14808-60-7 Quartz (SiO₂)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity · Aquatic toxicity: CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) EC50 / 48h 1.8 mg/l (daphnia) LC50 / 96h 2.0 mg/l (fish) EC50 / 96h 220 mg/l (algae) CAS: 13463-67-7 titanium dioxide EC50 / 48h >1000 mg/l (daphnia) LC50 / 96h >1000 mg/l (fish) EC50 / 96h 20 mg/l (algae) LC50 / 48h 20000 mg/l (daphnia) CAS: 9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol EC50 / 48h | 1.6 mg/l LC50 / 96h 0.55 mg/l (fish) EC50 / 72h 1.8 mg/l (algae) NOEC / 21d 0.3 mg/l LC50 / 48h 0.73 mg/l (fish) CAS: 38640-62-9 bis(isopropyl)naphthalene EC50 / 48h 0.16 mg/l (daphnia) LC50 / 96h 0.5 mg/l (fish) EC50 / 72h 0.15 mg/l (algae) NOEC / 21d 0.013 mg/l (daphnia) CAS: 8001-78-3 Castor oil, hydrogenated NOEC / 21d 0.01 mg/l (daphnia) · Persistence and degradability No further relevant information available. Behavior in environmental systems: · Bioaccumulative potential No further relevant information available. · Mobility in soil CAS: 9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Koc 4460 log Koc 3.65 CAS: 38640-62-9 bis(isopropyl)naphthalene log Koc >4.5 CAS: 8001-78-3 Castor oil, hydrogenated log Koc 14.04 Ecotoxical effects: Remark: Harmful to fish Additional ecological information: General notes: Harmful to aquatic organisms 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.

(Contd. on page 7)

US ____

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 12/02/2016

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Reviewed on 11/10/2016

Trade name: EPOXYSTUK X 90 (comp A)

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• **Recommendation:** Disposal must be made according to official regulations.

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.

14 Transport information

Void
Void
Void
Void
Νο
Not applicable.
f Not applicable.
Void

15 Regulatory information

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

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 13463-67-7 titanium dioxide	
CAS: 14808-60-7 Quartz (SiO ₂)	
· 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:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
CAS: 13463-67-7 titanium dioxide	A4
(Contd.	on page 8)
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Printing date 12/02/2016

Rev. 4

Reviewed on 11/10/2016

Trade name: EPOXYSTUK X 90 (comp A)

CAS: 14808-60-7	Quartz (SiO ₂) (Contd. of
CAS: 13463-67-7	ational Institute for Occupational Safety and Health)
CAS: 14808-60-7	
· Hazard pictog	ents The substance is classified and labeled according to the Globally Harmonized System (GHS rams
GHS07	
· Signal word W	/arning
reaction product formaldehyde, o oxirane, mono[Hazard statem H315 Causes s H319 Causes s H317 May cause Precautionary Avoid breathing Wear protective	kin irritation. serious eye irritation. se an allergic skin reaction. statements g dust/fume/gas/mist/vapors/spray e gloves. e cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Wash contamin	ninated clothing. nated clothing before reuse.
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