

Revision 3

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Reviewed on 09/04/2024 Printing date 09/04/2024 **1** Identification · Product identifier • Trade name: EB-155TC (PART A) • **Product number:** BT 301 (A) · Application of the substance / the mixture Epoxy Resin Adhesive · Details of the supplier of the safety data sheet · Manufacturer/Supplier: EPOXYSET INC. 718 Park East Drive Woonsocket, RI 02895, USA Phone: (401) 726-4500 www.epoxyset.com · Information department: Product safety department: msds@epoxyset.com · Emergency telephone number: Chemtel (US transportation) 1-800-255-3924 International (call collect) +01-813-248-0585 2 Hazard(s) identification · Classification of the substance or mixture



*

H315 Causes skin irritation. Skin Irritation 2 Eye Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 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).
- · Hazard pictograms



· Signal word Warning

Iazard-determining components of labeling:	· Hazard-d
eaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	reaction p
lazard statements	· Hazard s
I315 Causes skin irritation.	H315 Cau
I319 Causes serious eye irritation.	H319 Cau
I317 May cause an allergic skin reaction.	H317 Ma
recautionary statements	· Precautio
261 Avoid breathing dust/fume/gas/mist/vapors/spray	P261
264 Wash thoroughly after handling.	P264
272 Contaminated work clothing must not be allowed out of the workplace.	P272

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P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification sys	tem:
· NFPA ratings (sc	ale 0 - 4)
•	



• HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
FIRE 1	Fire = 1
REACTIVITY 0	Reactivity $= 0$

- · 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:		
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	30-50%
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	30-50%
	Substituted Silane - Proprietary	≤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.
- 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.

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

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: No special measures required.

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: Pick up mechanically.

· 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

· Protective A	ction Criteria for Chemicals	
· PAC-1:		
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	8.7 mg/m
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecula weight ≤ 700)	r 90 mg/m ³
	Substituted Silane - Proprietary	9.3 mg/m
112945-52-5	Amorphous, fumed silica	18 mg/m ³
1333-86-4	Carbon black	9 mg/m ³
· PAC-2:		-
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	73 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	990 mg/m
	Substituted Silane - Proprietary	100 mg/m
112945-52-5	Amorphous, fumed silica	100 mg/m
1333-86-4	Carbon black	290 mg/m
· PAC-3:		
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	440 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	5,900 mg/m
	Substituted Silane - Proprietary	230 mg/m ³
112945-52-5	Amorphous, fumed silica	630 mg/m ³
1222 06 4	Carbon black	1750 mg/m

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7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- 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: Store at temperatures not exceeding 10°C. Keep cool.
- · 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 section 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.

21645-51-2 aluminium oxide (hydrated) in wetted form (non-particulate)

REL Long-term value: 2 mg/m³ as Al

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

- · 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.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

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

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.

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· Eye protection:

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Tightly sealed goggles

9 Physical and chemical properties

General Information		
Appearance: Form:	Liquid	
Form: Color:	Liquid Black	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	200 °C (392 °F)	
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F):	1.0235-1.0239 g/cm ³ (8.54111-8.54445 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Soluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
VOC content:	0.00 %	
Solids content:	100.0 %	
		(Contd. on pa

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• Other information

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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.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · 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
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

1333-86-4 Carbon black

· 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · 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.

Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

 $^{\cdot}$ 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, IMDG, IATA	not regulated
· UN proper shipping name · DOT, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
 Packing group DOT, IMDG, IATA 	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· 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):

21645-51-2 aluminium oxide (hydrated) in wetted form (non-particulate)

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25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	
	Substituted Silane - Proprietary	ACTIV
1333-86-4	Carbon black	ACTIV
	s Air Pollutants	
	e ingredients is listed.	
	e	
Proposition		
	known to cause cancer:	
	Carbon black	
Chemicals	known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
	e ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
	e ingredients is listed.	
-	nic categories	
	ronmental Protection Agency)	
None of the	e ingredients is listed.	
TLV (Thre	eshold Limit Value)	
1333-86-4	Carbon black	A
NIOSH-Ca	a (National Institute for Occupational Safety and Health)	
1333-86-4	Carbon black	
Hazard pic	elements The product is classified and labeled according to the Globally Harmonized System (GH ctograms	3).
	termining components of labeling:	
Hazard sta	oduct: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) atements es skin irritation.	
	es serious eye irritation.	
	cause an allergic skin reaction.	
	ary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
P264	Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.	
P272 P280	Wear protective gloves / eye protection / face protection.	
P302+P352		
	 +P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if preset to do. Continue rinsing. 	nt and e

- to do. Continue rinsing.
- Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. P362+P364
- P333+P313

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Trade name: EB-155TC (PART A)

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P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Chemical safet	y 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.

· Department issuing SDS: Environment protection department.

- · Contact: EHS Personnel
- · Date of preparation / last revision 09/04/2024 / 2
- · 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) 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** Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 * * Data compared to the previous version altered.



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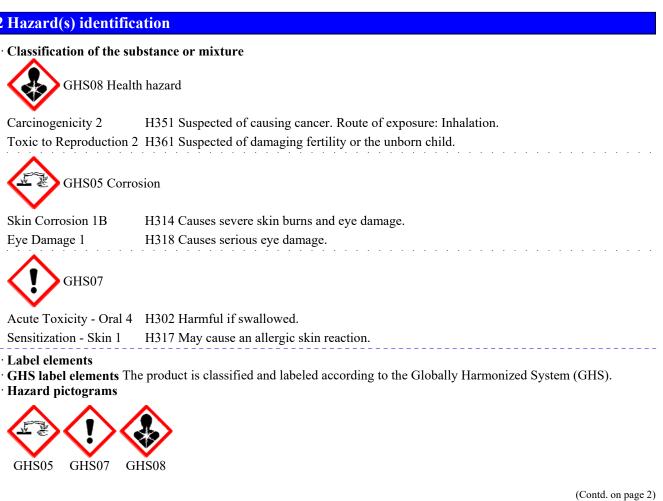
Revision 2

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1 Identification

- · Product identifier
- · Trade name: EB-155TC (PART B)
- · Product number: BT-301 (B)
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: EPOXYSET INC. 718 Park East Drive Woonsocket, RI 02895, USA Phone: (401) 726-4500 www.epoxyset.com
- · Information department: Product safety department: msds@epoxyset.com
- · Emergency telephone number: Chemtel (US transportation) 1-800-255-3924 International (call collect) +01-813-248-0585

2 Hazard(s) identification



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Signal word D	(Contd. of page 1
U	mining components of labeling:
nonylphenols	
2-piperazin-1-y	ylethylamine
titanium dioxid	
Hazard staten	
H302 Harmful	
	evere skin burns and eye damage.
	se an allergic skin reaction.
	d of causing cancer. Route of exposure: Inhalation.
	d of damaging fertility or the unborn child.
Precautionary	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
	331 If swallowed: Rinse mouth. Do NOT induce vomiting.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
1505 1551 1.	to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification	
NFPA ratings	
	Health = 3
	Fire = 1
	Reactivity $= 0$
HMIS-ratings	(scale 0 - 4)
	(scare 0 - +)
HEALTH *3	Health = *3
	Fire = 1
REACTIVITY 0	Reactivity = 0
Other hazards	
	ς Γ and vPvB assessment
PBT: Not appl	
I DI. Not appi	

• **vPvB:** Not applicable.

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	30-50%
84852-15-3	nonylphenols	30-50%
140-31-8	2-piperazin-1-ylethylamine	11.500%
13463-67-7	titanium dioxide	≤2.5%
112945-52-5	Amorphous, fumed silica	≤2.5%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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. Then consult a doctor.
- · After swallowing:
- Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call 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 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: No special measures required.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 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: Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

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	Ensure adequate ventilation.		
	other sections		
	7 for information on safe handling.		
	for information on personal protection equipment.		
	3 for disposal information.		
· Protective A	ction Criteria for Chemicals		
· PAC-1:			
	aluminium oxide (hydrated) in wetted form (non-particulate)	8.7 mg/m ³	
84852-15-3	nonylphenols	3.9 mg/m ³	
140-31-8	2-piperazin-1-ylethylamine	6.4 mg/m ³	
13463-67-7	titanium dioxide	30 mg/m ³	
112945-52-5	Amorphous, fumed silica	18 mg/m ³	
· PAC-2:			
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	73 mg/m ³	
	nonylphenols	4.8 ppm	
	2-piperazin-1-ylethylamine	71 mg/m ³	
13463-67-7	titanium dioxide	330 mg/m ³	
112945-52-5	Amorphous, fumed silica	100 mg/m ³	
· PAC-3:			
21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	440 mg/m ³	
84852-15-3	nonylphenols	29 ppm	
	2-piperazin-1-ylethylamine	420 mg/m ³	
13463-67-7	titanium dioxide	2,000 mg/m ³	
112945-52-5	Amorphous, fumed silica	630 mg/m ³	

7 Handling and storage

· Handling:

- Precautions for safe handling Thorough dedusting
- · 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: Store at temperatures not exceeding 10°C. Keep cool.
- · 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 section 7.

· Control parameters

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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Revision 2

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21645	-51-2 aluminium oxide (hydrated) in wetted form (non-particulate)
	Long-term value: 2 mg/m ³ as Al
13463	-67-7 titanium dioxide
PEL	Long-term value: 15* mg/m ³ *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 0.2* 2.5** mg/m ³ resp. fraction, *nanoscale,**finescale, A3
11294	5-52-5 Amorphous, fumed silica
TWA	Short-term value: 0.8 mg/m ³
·Addit	ional information: The lists that were valid during the creation were used as basis.
Immeo Wash Avoid • Breat	way from foodstuffs, beverages and feed. liately remove all soiled and contaminated clothing. hands before breaks and at the end of work. contact with the eyes and skin. hing equipment: Not required. etion of hands: Protective gloves
Mater The se from 1 materi Penet	ove material has to be impermeable and resistant to the product/ the substance/ the preparation. ial of gloves lection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies nanufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove al can not be calculated in advance and has therefore to be checked prior to the application. ration time of glove material tact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. rotection: Tightly sealed goggles
Phys	ical and chemical properties

 Information on basic physic 	ical and chemical properties
 General Information 	
· Appearance:	
Form:	Liquid
Color:	Beige
· Odor:	Amine-like

Not determined.

· Odor: · Odor threshold:

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pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	220.4 °C (428.7 °F)
Flash point:	>115 °C (>239 °F)
Flammability (solid, gaseous):	Not determined.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	10.5 Vol %
· Vapor pressure at 20 °C (68 °F):	0.1 hPa
Density at 20 °C (68 °F):	1.45 g/cm ³ (12.10025 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Soluble.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
VOC content:	0.00 %
Solids content:	100.0 %
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 No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information	
· Information on toxicological effects · Acute toxicity:	
· LD/LC50 values that are relevant for classification:	
140-31-8 2-piperazin-1-ylethylamine	
Oral LD50 2,140 mg/kg (rat)	
Dermal LD50 880 mg/kg (rabbit)	
· Primary irritant effect:	
• on the skin: Caustic effect on skin and mucous membranes.	
• on the eye: Strong caustic effect.	
· Sensitization: Sensitization possible through skin contact.	
· Additional toxicological information:	
The product shows the following dangers according to internally approved calculation methods for preparations:	
Harmful	
Corrosive	
Irritant	
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.	
· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
13463-67-7titanium dioxide2B	
· 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.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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

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· 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.

UN-Number DOT, IMDG, IATA	UN1759
UN proper shipping name DOT IMDG, IATA	Corrosive solids, n.o.s. (nonylphenols, N-Aminoethylpiperazine) CORROSIVE SOLID, N.O.S. (nonylphenols, AMINOETHYLPIPERAZINE)
Transport hazard class(es)	
DOT	
CORROOME 8	
Class	8 Corrosive substances
Label	8
IMDG	
Class	8 Corrosive substances
Label	8
IATA	
9 <u>4</u> 21	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: nonylphene Symbol (fish and tree)

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	(Contd. of page
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler cod	e): 80
EMS Number:	F-A,S-B
Stowage Category	A
Transport in bulk according to Annex II of	ſ
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 25 kg
- •	On cargo aircraft only: 100 kg
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 1759 CORROSIVE SOLID, N.O.S. (NONYLPHENOLS, 1
0	AMINOETHYLPIPERAZINE), 8, III, ENVIRONMENTALL
	HAZARDOUS

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

84852-15-3 nonylphenols

· TSCA (Toxic Substances Control Act):

21645-51-2	aluminium oxide (hydrated) in wetted form (non-particulate)	ACTIVE
84852-15-3	nonylphenols	ACTIVE
140-31-8	2-piperazin-1-ylethylamine	ACTIVE
13463-67-7	titanium dioxide	ACTIVE

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

13463-67-7 titanium dioxide

· 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.

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US -

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A4

· 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)

13463-67-7 titanium dioxide

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

13463-67-7 titanium dioxide

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



· Signal word Danger

• Hazard-determining components of labeling: nonylphenols

2-piperazin-1-ylethylamine

titanium dioxide

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H361 Suspected of damaging fertility or the unborn child.

· Precautionary statements

· Precautionary statements		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe dusts or mists.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P272	Contaminated work clothing must not be allowed out of the workplace.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.	
P301+P330+P33	1 If swallowed: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy		
	to do. Continue rinsing.	
P310	Immediately call a poison center/doctor.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P321	Specific treatment (see on this label).	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
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· 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.

- · Department issuing SDS: Environment protection department.
- · Contact: EHS Personnel
- · Date of preparation / last revision 09/04/2024 / 1
- 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** Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 • * Data compared to the previous version altered.

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