

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Oratex® Epoxy resin adhesive 9855 A

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Company name:	Lanitz Prena Folien Factory GmbH	
Street:	Am Ritterschlösschen 20	
Place:	04179 Leipzig	
Contact person:	Frau Ploss / Albrecht	Telephone: +49 - 341 - 44 23 05 - 34
e-mail:	labor@oracover.de	

1.4. Emergency telephone number: +49 (0)6132-84463 (24 h)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

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

Bisphenol F - epichlorhydrin resin with Number average Molecular Weight <= 700

1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

Signal word: Warning**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic 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.
P273	Avoid release to the environment.

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 3 of 11

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a doctor.

4.2. Most important symptoms and effects, both acute and delayed

After skin contact: erythema (redness), Ignition. Epidemiological studies showing allergic contact dermatitis caused by the substance.

Following eye contact: Causes eye irritation. Chemosis.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. (Carbon dioxide (CO₂), Foam, Powder)

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. The contaminated area should be cleaned up immediately with: Water (with cleaning agent)

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 4 of 11

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Keep away from: Acids, Oxidising agent

7.3. Specific end use(s)

Adhesives, sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Barium compounds, soluble (as Ba)	-	0.5		TWA (8 h)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
7727-43-7	Barium sulphate, respirable dust	-	4		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
Worker DNEL, acute	dermal	systemic	8,33 mg/kg bw/day	
Worker DNEL, acute	inhalation	systemic	12,25 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	12,25 mg/m ³	
Consumer DNEL, acute	dermal	systemic	3,571 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	3,571 mg/kg bw/day	
Consumer DNEL, acute	inhalation	systemic	0,75 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	0,75 mg/m ³	
Consumer DNEL, acute	oral	systemic	0,75 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,75 mg/kg bw/day	

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 5 of 11

PNEC values

CAS No	Substance	
Environmental compartment		Value
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Freshwater		0,006 mg/l
Marine water		0,0006 mg/l
Freshwater sediment		0,996 mg/kg
Marine sediment		0,0996 mg/kg
Secondary poisoning		11 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,196 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink or smoke. Do not breathe gas/fumes/vapour/spray.

Eye/face protection

Tightly sealed safety glasses. Eye glasses with side protection.

Hand protection

Wear suitable gloves. (DIN EN 374)

Suitable material: NBR (Nitrile rubber)

Thickness of glove material: >= 0,4 mm

By long-term hand contact: Breakthrough time (maximum wearing time) >= 480 min

By short-term hand contact: Breakthrough time (maximum wearing time) >= 30 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Filtering device (full mask or mouthpiece) with filter: A

Environmental exposure controls

Avoid release to the environment.

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 6 of 11

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Paste	
Colour:	white	
Odour:	odourless	
pH-Value:		not applicable

Changes in the physical state

Melting point:		not determined
Initial boiling point and boiling range:		> 148 °C
Flash point:		> 148 °C

Flammability

Solid:		not determined
Gas:		not applicable

Explosive properties

No information available.

Lower explosion limits:		not determined
Upper explosion limits:		not determined
Ignition temperature:		not determined

Auto-ignition temperature

Solid:		not determined
Gas:		not applicable

Decomposition temperature:		not determined
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Oxidizing properties

Not oxidising.

Vapour pressure: (at 50 °C)		< 700 hPa
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Density:		1,4 g/cm ³
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Water solubility:		practically insoluble
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Solubility in other solvents

not determined

Partition coefficient:		not determined
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Viscosity / dynamic:		not determined
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Viscosity / kinematic:		not determined
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Vapour density:		not determined
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Evaporation rate:		not determined
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9.2. Other information

Odour threshold: not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reacts with : Strong acid, Oxidizing agents, strong.
Danger of polymerisation.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 7 of 11

10.3. Possibility of hazardous reactions

Reacts with : Strong acid, Oxidizing agents, strong.
Danger of polymerisation.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Strong acid, Oxidizing agents, strong.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)				
	oral	LD50 > 2000 mg/kg	Rat	Manufacturer	
	dermal	LD50 23000 mg/kg	Rabbit	Manufacturer	
28064-14-4	Bisphenol F - epichlorhydrin resin with Number average Molecular Weight <= 700				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	OECD 401

Irritation and corrosivity

Causes skin irritation.
Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700); Bisphenol F - epichlorhydrin resin with Number average Molecular Weight <= 700; 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 8 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)					
	Acute fish toxicity	LC50 mg/l	1,75	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer OECD 203
	Acute algae toxicity	ErC50	9,4 mg/l	72 h	Scenedesmus capricornutum	Manufacturer OECD 201
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna (Big water flea)	Manufacturer OECD 211
28064-14-4	Bisphenol F - epichlorhydrin resin with Number average Molecular Weight <= 700					
	Acute crustacea toxicity	EC50	3,5 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer OECD 202

12.2. Persistence and degradability

The product is not: Biodegradable.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
	OECD 301F	5%	28	Manufacturer
	Not readily biodegradable (according to OECD criteria)			
28064-14-4	Bisphenol F - epichlorhydrin resin with Number average Molecular Weight <= 700			
	OECD 301B	10 - 16 %		Manufacturer
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 9 of 11

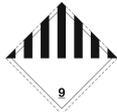
080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

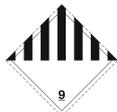
14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-(epichlorhydrin))
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Classification code: M6
 Special Provisions: 274 335 375 601
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 90

Inland waterways transport (ADN)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-(epichlorhydrin))
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Classification code: M6
 Special Provisions: 274 335 375 601
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-(epichlorhydrin))
14.3. Transport hazard class(es): 9
14.4. Packing group: III

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

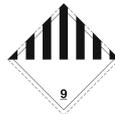
Revision date: 01.04.2019

Page 10 of 11

Special Provisions: 274, 335, 969
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (epoxy resin (number average molecular weight <= 700), reaction product:
 bisphenol-F-(epichlorhydrin))
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A197
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: (epoxy resin (number average molecular weight <= 700), reaction product:
 bisphenol-F-(epichlorhydrin))

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700); Bisphenol F - epichlorhydrin resin with Number average Molecular Weight <= 700;
 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexane

2010/75/EU (VOC): < 3 %
 Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
 Water contaminating class (D): 2 - clearly water contaminating

according to Regulation (EC) No 1907/2006

Oratex® Epoxy resin adhesive 9855 A

Revision date: 01.04.2019

Page 11 of 11

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**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
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)