

FLPCHIP -40CD

# Safety Data Sheet according to Regulation (EC) No 1907/2006

LOCTITE ECCOBOND FP4531 known as HYSOL FP4531 10CC

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SDS No.: 213458

V001.0

Revision: 16.03.2017 printing date: 17.10.2019

Replaces version from: -

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

#### 1.1. Product identifier

LOCTITE ECCOBOND FP4531 known as HYSOL FP4531 10CC FLPCHIP -40CD

#### **Contains:**

Hexahydromethylphthalic anhydride 1,6-Naphthalenediol diglycidyl ether Bisphenol-F epichlorhydrin resin; MW<700 Bisphenol F diglycidyl ether

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Encapsulant

#### 1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0 Fax-no.: +49 211 798 2009

ua-productsafety.de@henkel.com

## 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye damage Category 1

H318 Causes serious eye damage.

Respiratory sensitizer Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Germ cell mutagenicity Category 2

H341 Suspected of causing genetic defects.

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

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#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



Signal word: Danger

**Hazard statement:** H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:** P261 Avoid breathing vapours.

**Prevention** P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:** P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**Response** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

#### 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## General chemical description:

Epoxy Adhesive

#### Base substances of preparation:

polymers Anhydrides Filler

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## Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Hexahydromethylphthalic anhydride 25550-51-0	247-094-1 01-2119845474-33	10- 20 %	Eye Dam. 1 H318 Skin Sens. 1 H317 Resp. Sens. 1 H334 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	429-960-2	5- < 10 %	Muta. 2 H341 Acute Tox. 4; Dermal H312 Skin Irrit. 2 H315 Aquatic Chronic 3 H412 Skin Sens. 1 H317
Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5	500-006-8 500-006-8 01-2119454392-40	5- < 10 %	Skin Irrit. 2; Dermal H315 Skin Sens. 1; Dermal H317 Aquatic Chronic 2 H411
Bisphenol F diglycidyl ether 39817-09-9	254-641-8	0,25-< 2,5 %	Skin Irrit. 2; Dermal H315 Skin Sens. 1; Dermal H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

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RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide.

Fine water spray

## Extinguishing media which must not be used for safety reasons:

High pressure waterjet

## 5.2. Special hazards arising from the substance or mixture

Danger of decomposition if exposed to heat.

The product may undergo spontaneous polymerization at high temperatures. Polymerization is exothermic and may cause damage to the container and/or release of thermal decomposition products.

See section 10.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

In case of fire, keep containers cool with water spray.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

#### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

#### 6.3. Methods and material for containment and cleaning up

Remove mechanically.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Dispose of contaminated material as waste according to Section 13.

## 6.4. Reference to other sections

See advice in section 8

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Ensure good ventilation/suction at the workplace.

Extract when the product is heated.

Avoid skin and eye contact.

Avoid open flames.

See advice in section 8

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Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Protect against contamination.

Store in a cool, dry place.

Ensure that storage and workrooms are adequately ventilated.

Must be stored in a room with spill collection facilities.

Keep away from heat and direct sunlight.

Refer to Technical Data Sheet

#### 7.3. Specific end use(s)

Encapsulant

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## **Occupational Exposure Limits**

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Silica, vitreous 60676-86-0		0,3	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 7631-86-9		4	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

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# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period					Remarks
	•	•	mg/l	ppm	mg/kg	others	
Hexahydromethylphthalic anhydride 25550-51-0	sewage treatment plant (STP)					2,19 mg/L	
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	aqua (freshwater)		0,003 mg/l				
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	aqua (marine water)		0,0003 mg/l				
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	sewage treatment plant (STP)		10 mg/l				
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	sediment (freshwater)				0,294 mg/kg		
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	sediment (marine water)				0,0294 mg/kg		
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	soil				0,237 mg/kg		
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	aqua (intermittent releases)		0,0254 mg/l				

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	Workers	dermal	Acute/short term exposure - local effects		0,0083 mg/cm2	
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	Workers	dermal	Long term exposure - systemic effects		104,15 mg/kg	
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	Workers	Inhalation	Long term exposure - systemic effects		29,39 mg/m3	
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	General population	dermal	Long term exposure - systemic effects		62,5 mg/kg	
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	General population	Inhalation	Long term exposure - systemic effects		8,7 mg/m3	
Reaction product: bisphenol-F- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5	General population	oral	Long term exposure - systemic effects		6,25 mg/kg	

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#### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

#### Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

#### Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance liquid liquid

black

Odor little intrinsic odour

Odour threshold No data available / Not applicable

рΗ No data available / Not applicable

Initial boiling point Polymerization may occur at elevated temperature.

> 121,00 °C (> 249.8 °F) Flash point

Decomposition temperature No data available / Not applicable No data available / Not applicable Vapour pressure

Density 1,7 g/cm3

(20 °C (68 °F))

Bulk density No data available / Not applicable Viscosity No data available / Not applicable No data available / Not applicable Viscosity (kinematic) Explosive properties No data available / Not applicable Solubility (qualitative) Not miscible or difficult to mix

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Partially miscible

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(20 °C (68 °F); Solvent: ketones)

Solidification temperature No data available / Not applicable Melting point No data available / Not applicable Flammability No data available / Not applicable No data available / Not applicable Auto-ignition temperature No data available / Not applicable Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water Evaporation rate No data available / Not applicable No data available / Not applicable Vapor density Oxidising properties No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with alcohols and amines.

Reacts with oxidants, acids and lyes

Polymerization may occur at elevated temperature or in the presence of incompatible materials.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Danger of decomposition if exposed to heat.

Do not heat mixed adhesive unless you plan to use immediately.

Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

Avoid moisture.

#### 10.5. Incompatible materials

See section reactivity.

## 10.6. Hazardous decomposition products

Hydrocarbons

Irritating organic vapours.

Polymerization may occur at elevated temperature or in the presence of incompatible materials.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

See section 5.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

## Skin irritation:

Causes skin irritation.

#### Eye irritation:

Causes serious eye damage.

#### Sensitizing:

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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# Mutagenicity:

Suspected of causing genetic defects

# Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hexahydromethylphthalic	LD50	3.307 mg/kg	oral		rat	not specified
anhydride						_
25550-51-0						
Bisphenol-F	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
epichlorhydrin resin;						Oral Toxicity)
MW<700						
9003-36-5						
Bisphenol F diglycidyl	LD50	> 5.000 mg/kg	oral		rat	
ether						
39817-09-9						

## Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time	_	

# Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Hexahydromethylphthalic	LD50	> 2.000 mg/kg	dermal		rabbit	not specified
anhydride						
25550-51-0						
Bisphenol-F	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
epichlorhydrin resin;						Dermal Toxicity)
MW<700						
9003-36-5						
Bisphenol F diglycidyl	LD50	> 6.000 mg/kg	dermal		rabbit	
ether						
39817-09-9						

## Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Bisphenol-F	irritating	4 h	rabbit	OECD Guideline 404 (Acute
epichlorhydrin resin;	-			Dermal Irritation / Corrosion)
MW<700				
9003-36-5				

## Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Bisphenol-F	not irritating		rabbit	OECD Guideline 405 (Acute
epichlorhydrin resin;				Eye Irritation / Corrosion)
MW<700				
9003-36-5				

## Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Hexahydromethylphthalic anhydride 25550-51-0 Bisphenol-F epichlorhydrin resin;	negative positive	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 471 (Bacterial Reverse Mutation
MW<700 9003-36-5		Ames test)			Assay)
Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

## Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Hexahydromethylphthalic anhydride 25550-51-0	NOAEL P = 450 mg/kg	screening oral: gavage		rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

#### Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Hexahydromethylphthalic anhydride 25550-51-0	NOAEL=450 mg/kg	oral: gavage	28 d4 consecutive weeks/daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5	NOAEL=250 mg/kg	oral: gavage	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

# **SECTION 12: Ecological information**

## General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

If used properly the product does not enter the drains.

In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used.

## 12.1. Toxicity

#### **Ecotoxicity:**

Harmful to aquatic life with long lasting effects.

Do not empty into drains  $\slash$  surface water  $\slash$  ground water.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Hexahydromethylphthalic	LC50	500 mg/l	Fish	48 h	Oryzias latipes	OECD Guideline
anhydride						203 (Fish, Acute
25550-51-0	l					Toxicity Test)
Hexahydromethylphthalic	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
anhydride						202 (Daphnia sp.
25550-51-0						Acute
						Immobilisation
						Test)
Hexahydromethylphthalic	EC50	135 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline
anhydride						201 (Alga, Growth
25550-51-0						Inhibition Test)
	NOEC	32 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline
						201 (Alga, Growth
						Inhibition Test)
Hexahydromethylphthalic	EC20	95,3 mg/l	Bacteria	3 h	activated sludge, domestic	OECD Guideline
anhydride						209 (Activated
25550-51-0						Sludge, Respiration
			ļ			Inhibition Test)
Bisphenol-F epichlorhydrin	EC50	1,6 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
resin; MW<700						202 (Daphnia sp.
9003-36-5						Acute
						Immobilisation
			1			Test)
Bisphenol-F epichlorhydrin	EC50	1,8 mg/l	Algae	72 h		OECD Guideline
resin; MW<700						201 (Alga, Growth
9003-36-5						Inhibition Test)
Bisphenol-F epichlorhydrin	NOEC	0,3 mg/l	chronic	21 d	Daphnia magna	OECD 211
resin; MW<700			Daphnia			(Daphnia magna,
9003-36-5		4 40 7		0.51		Reproduction Test)
Bisphenol F diglycidyl ether	LC50	> 1 - 10 mg/l	Fish	96 h		OECD Guideline
39817-09-9						203 (Fish, Acute
D. 1 1E. 1 11 1	FOSO	1 10 "	<b>.</b>	40.1	D 1 :	Toxicity Test)
Bisphenol F diglycidyl ether	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
39817-09-9						202 (Daphnia sp.
						Acute
						Immobilisation
I			I	I	l	Test)

## 12.2. Persistence and degradability

## Persistence and Biodegradability:

The product is not biodegradable.

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		
Hexahydromethylphthalic	Not readily	aerobic	2 %	OECD Guideline 301 F (Ready
anhydride	biodegradable.			Biodegradability: Manometric
25550-51-0				Respirometry Test)
Bisphenol-F epichlorhydrin		aerobic	5 %	OECD Guideline 301 F (Ready
resin; MW<700				Biodegradability: Manometric
9003-36-5				Respirometry Test)
Bisphenol F diglycidyl ether	under test conditions no		< 10 %	OECD 301 A - F
39817-09-9	biodegradation observed			

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

# Mobility:

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Cured adhesives are immobile.

# **Bioaccumulative potential:**

No data available.

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			

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Hexahydromethylphthalic anhydride		11,12	calculated		QSAR (Quantitative Structure Activity
25550-51-0					Relationship)
Hexahydromethylphthalic	2,59			25 °C	QSAR (Quantitative
anhydride					Structure Activity
25550-51-0					Relationship)

#### 12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB			
Hexahydromethylphthalic anhydride 25550-51-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.			
Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.			

#### 12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

Special waste incineration with the approval of the responsible local authority.

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

Use packages for recycling only when totally empty.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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## **SECTION 14: Transport information**

14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

VOC content (2010/75/EC) < 3 %

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

 ${\bf National\ regulations/information\ (Germany):}$ 

WGK: WGK = 2, water endangering product. Classification according to the mixture

rules in German VwVwS regulation annex 4 from 27.July 2005.

BG regulations, rules, infos:

BG data sheet: BGI 595 Irritating substances / Corrosive substances (M

004)

BG data sheet: BGI 660 General Occupational Safety Measures for

handling hazardous substances (M 053)

Storage class according to TRGS 510: 10

General remarks (DE): None

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## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

#### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.