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Former date: 10.08.2023

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

1.1 Product identifier	
Trade name :	FR4845
Unique Formula Identifier : (UFI)	X192-TEHN-C8FQ-QQT2
1.2 Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the : Substance/Mixture	Raw material for plastics industry
1.3 Details of the supplier of the saf	ety data sheet
Supplier :	Borealis AG Trabrennstrasse 6-8, 1020 Vienna, Austria Telephone: +43 1 22400 0 Borealis AG Trabrennstrasse 6-8, 1020 Vienna, Austria Telephone: +43 1 22400 0

E-mail address

: <u>sds@borealisgroup.com</u>

1.4 Emergency telephone number

+1 760 476 3962 (3E), Access code: 336296

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360: May damage fertility or the unborn child.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms		!	
Signal word	: Danger		
Hazard statements	H360 May da	use an allergic skin reaction mage fertility or the unborn Il to aquatic life with long las	child.
Precautionary statements	P261 Avoid b P273 Avoid r P280 Wear p	special instructions before preathing dust. elease to the environment. protective gloves/ protective protection/ hearing protect	clothing/ eye
	Response: P308 + P313 attention. P333 + P313 advice/ attentio	IF exposed or concerned: If skin irritation or rash occ n.	

Hazardous components which must be listed on the label:

1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt (1:2) maleic anhydride

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The product burns, but is not classified as flammable. Dust from the product gives a potential risk for dust explosion.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-methyl-, 2-ethyl-2-[[(2-methyl-1- oxo-2-propenyl)oxy]methyl]-1,3- propanediyl 2-propenoate	3290-92-4 221-950-4 01-2119542176-41- 0007	Aquatic Chronic 2; H411	>= 1 - < 2,5
1,3-dihydro-4(or 5)-methyl-2H- benzimidazole-2-thione, zinc salt (1:2)	61617-00-3 262-872-0	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Repr. 1B; H360 STOT RE 2; H373 Aquatic Chronic 1; H410	>= 1 - < 2,5
maleic anhydride	108-31-6 203-571-6 607-096-00-9 UK-20-7333232785- 4-0000	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 EUH071 	>= 0,001 - < 0,1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and plenty of water.



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	Call a physician if irritation devel If molten material comes in conta plenty of water. DO NOT remove removal could result in severe tis	act with the skin, cool with solidified product, as	
In case of eye contact	: Flush eyes with water as a preca Get medical attention if irritation		
If swallowed	: Rinse mouth with water. Consult a physician if necessary	: Rinse mouth with water. Consult a physician if necessary.	
.2 Most important symptom	is and effects, both acute and delayed		
Symptoms	: Inhalation of dust may irritate the Prolonged inhalation of high dos may give headache or irritation of	es of decomposition products	
	Skin contact may provoke the fo	llowing symptoms:	
Risks	: May cause an allergic skin react May damage fertility or the unbo		
I.3 Indication of any immedi	ate medical attention and special treat	ment needed	
Treatment	: Treat symptomatically. No specific instructions needed.		

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Water in spread jet, dry chemicals, foam or carbon dioxide.
5.2 Special hazards arising from	the substance or mixture
Specific hazards during firefighting	: Principal toxicant in the smoke is carbon monoxide.
5.3 Advice for firefighters	
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.



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Use personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

6.3 Methods and material for containment and cleaning up

Vacuum or sweep up spill. All spill of material must be removed immediately to prevent slipping accidents. Recycle or dispose loose material properly. Do not flush into surface water or sanitary sewer system.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	Advice on safe handling	:	During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Provide adequate ventilation. Local exhaust ventilation may be necessary. Avoid inhalation of dust and decomposition fumes. Avoid contact with skin and eyes. May cause sensitisation of susceptible persons. Personnel sensitised to this substance should not be allowed to handle the product.
	Advice on protection against fire and explosion	:	Dust from the product gives a potential risk for dust explosion. All equipment shall be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
	Hygiene measures	:	When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
7.2	Conditions for safe storage, in	ncl	uding any incompatibilities
	Requirements for storage areas and containers	:	Safety aspects do not require any special precautions in terms of storage.
	Further information on storage stability	:	Keep in a dry place.



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7.3 Specific end use(s) Specific use(s)	: Raw material for wire and cable	applications.	
SECTION 8: Exposure contr	ols/personal protection		
 8.1 Control parameters For national exposure limit (8.2 Exposure controls 	OEL) values, check country specific sa	fety data sheets.	
Engineering measures Provide adequate ventilation Local exhaust ventilation ma			
Personal protective equip	ment		
Eye protection	: Safety glasses	Safety glasses	
	Use eye protection according to	EN 166.	
Hand protection Material	: polyvinyl alcohol (PVA, PVAL)		
Remarks	: Protective gloves Protective gloves complying with Please observe the instructions breakthrough time which are pro gloves. Also take into considerat conditions under which the prod danger of cuts, abrasion, and the	regarding permeability and ovided by the supplier of the tion the specific local uct is used, such as the	
Skin and body protection	: Protective clothing		
Respiratory protection	: In case of insufficient ventilation filter or self-contained breathing		
Protective measures	: Appropriate personal protective worn in accordance with Regula		
Environmental exposure c	ontrols		
General advice	: Should not be released into the It is recommended to implement as Operation Clean Sweep®) to	systems and practices (such	

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plastics in to the environment.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	pellets
Colour	:	white
Odour	:	odourless
Melting range	:	100 - 140 °C
Boiling range	:	Decomposes on heating.
Flammability	:	The product is not flammable.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable, (solid)
Auto-ignition temperature	:	> 320 °C
рН	:	Not applicable insoluble
Viscosity Viscosity, dynamic	:	No data available
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	Not applicable insoluble
Vapour pressure	:	Not applicable (solid)
Density	:	> 1,3 g/cm ³
Bulk density	:	800 - 900 kg/m³
Durk density		



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9.2 Other information Explosives	: Not explosive	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Evaporation rate	: Not applicable (solid)	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

The product is a stable thermoplastic.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Under fire conditions: Carbon monoxide During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method



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Version 9.0 Revision Date: 22.02.2024 Former date: 10.08.2023 Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dus/mist Method: Calculation method Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Skin sensitisation May cause an allergic skin reaction. Respiratory sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. STOT - single exposure 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. Stor - repeated exposure Based on available data, the classification criteria are not met. Stor - repeated exposure Based on available data, the classification criteria are not met. Stor - repeated exposure Based on available data, the classification criteria are not met. Stor - repeated exposure Based on available data, the classification criteria are not met. Stor - rep	FK4040						
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Endocrine disrupting properties Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		classification criteria are not met.					
Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	11.2 Information on other hazar	rds					
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	Endocrine disrupting prop	Endocrine disrupting properties					
Further information		considered to have endocrine d to REACH Article 57(f) or Comr (EU) 2017/2100 or Commission	lisrupting properties according nission Delegated regulation				
	Further information						

Product:



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Remarks	Prolonged inhalation of high dos	 Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract. 				

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Components:		
1,3-dihydro-4(or 5)-methyl-2l Toxicity to fish		enzimidazole-2-thione, zinc salt (1:2): NOEC : 2,1 mg/l Exposure time: 96 h
		Exposure time. 30 fr
		LC50 : 5,6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia (water flea)): 0,0346 mg/l Exposure time: 21 d
		LOEC (Daphnia (water flea)): 0,1035 mg/l Exposure time: 21 d
Toxicity to algae/aquatic plants	:	NOEC (algae): 0,69 mg/l Exposure time: 72 h
		EC50 (algae): 6,6 mg/l Exposure time: 72 h

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: Not readily biodegradable.
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12.3 Bioaccumulative potential

Product:

- Bioaccumulation
- : Remarks: Does not accumulate in organisms.



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Remarks: Not expected to adsorb or Remarks: The product is insoluble a ssment This substance/mixture contains not to be either persistent, bioaccumulat very persistent and very bioaccumulat 0.1% or higher s The substance/mixture does not con considered to have endocrine disrup	and sinks in water. components considered tive and toxic (PBT), or lative (vPvB) at levels of
Remarks: The product is insoluble a ssment This substance/mixture contains no to be either persistent, bioaccumulat very persistent and very bioaccumul 0.1% or higher s The substance/mixture does not con	and sinks in water. components considered tive and toxic (PBT), or lative (vPvB) at levels of
Remarks: The product is insoluble a ssment This substance/mixture contains no to be either persistent, bioaccumulat very persistent and very bioaccumul 0.1% or higher s The substance/mixture does not con	and sinks in water. components considered tive and toxic (PBT), or lative (vPvB) at levels of
This substance/mixture contains not to be either persistent, bioaccumulat very persistent and very bioaccumul 0.1% or higher s The substance/mixture does not con	components considered tive and toxic (PBT), or lative (vPvB) at levels of
This substance/mixture contains not to be either persistent, bioaccumulat very persistent and very bioaccumula 0.1% or higher s The substance/mixture does not con	tive and toxic (PBT), or lative (vPvB) at levels of
to be either persistent, bioaccumulat very persistent and very bioaccumul 0.1% or higher s The substance/mixture does not con	tive and toxic (PBT), or lative (vPvB) at levels of
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The substance/mixture does not con	ntain components
	ntain components
	ntain components
to REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Reg levels of 0.1% or higher.	ion Delegated regulation
Should not be released into the envi	ironment.
Harmful to aquatic life with long lasti	ing effects.
	Should not be released into the env

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	Dispose of contents/ container to an approved waste disposal plant. Check with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.



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SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

: Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

15.2 Chemical safety assessment

no

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.



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H318	: Caus	es serious eye damage.		
H332		iful if inhaled.		
H334		cause allergy or asthma sym ulties if inhaled.	ptoms or breathing	
H360		damage fertility or the unborr	n child.	
H372	: Caus	es damage to organs throug sure if inhaled.		
H373		cause damage to organs thro sure if swallowed.	ough prolonged or repeated	
H410	: Very	toxic to aquatic life with long	lasting effects.	
H411		Toxic to aquatic life with long lasting effects.		
EUH071	: Corro	Corrosive to the respiratory tract.		
Full text of other abbreviati	ons			
Acute Tox.	: Acute	e toxicity		
Aquatic Chronic		-term (chronic) aquatic hazaı	rd	
Eye Dam.	: Serio	us eye damage		
Repr.	: Repr	oductive toxicity		
Resp. Sens.	: Resp	iratory sensitisation		
Skin Corr.	: Skin	corrosion		
Skin Sens.	: Skin	sensitisation		
STOT RE	: Spec	ific target organ toxicity - rep	eated exposure	
Further information				
Other information	: Issue	d according to Regulation (E	C) No 1907/2006, Annex II,	
	and i	ts amendments.		
		ges since the last version an version replaces all previous		
lssuer	: Borea	alis, Group Product Stewards	ship	
Sources of key data used to compile the Safety Data Sheet		classification information of c rial supplier data.	omponents is based on raw	
Classification of the mixtur	e:	Classific	cation procedure:	
Skin Sens. 1	H317	Calculati	on method	
Repr. 1B	H360	Calculati	on method	
Aquatic Chronic 3	H412	Calculati	on method	



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Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

