Borcoat[™] ME0420

Version 2.0	Revision Date 04/18/2024	Former date 03/24/2022
SECTION 1. IDENTIFICATION		
Product name	: Borcoat ME0420	
Manufacturer or supplier's	details	
Supplier	: Borealis Compounds Inc 176 Thomas Road, NJ 07865 Port America (USA) Telephone: +1 908 850 6200	Murray, United States of
E-mail address	: <u>sds@borealisgroup.com</u>	
Emergency telephone number	+1 866 519 4752 (3E) Access cod Compounds Inc, Borealis North Ar for Monday – Friday 8-4:30pm exc	nerica HSE: 908-850-6200

Neconimended use of the chemical and restrictions on use				
Recommended use	:	Raw material for plastics industry		
Restrictions on use	:	Use only according to our recommendations.		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Respiratory sensitisation	:	Category 1		
Skin sensitisation	:	Category 1		
GHS label elements Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Precautionary statements	:	Prevention: P261 Avoid breathing dust. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves. P285 In case of inadequate ventilation wear respiratory protection.		

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Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Warning! May form combustible dust concentrations in air (during processing). The product burns, but is not classified as flammable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

	Mixture The product is a polyethylene polymer.
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Components

••		
Chemical name	CAS-No.	Concentration (% w/w)
maleic anhydride	108-31-6	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

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. Call a physician if irritation develops or persists. If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	Rinse mouth with water. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	:	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. Skin contact may provoke the following symptoms: Irritation May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Notes to physician	:	Treat symptomatically. No specific instructions needed.	
SECTION 5. FIREFIGHTING MEA	SU	RES	
Suitable extinguishing media Unsuitable extinguishing media	:	Water in spread jet, dry chemicals, t High volume water jet	foam or carbon dioxide.
Specific hazards during firefighting	:	Principal toxicant in the smoke is ca	rbon monoxide.
		Avoid generating dust; fine dust disp concentrations, and in the presence potential dust explosion hazard.	
Special protective equipment for firefighters	:	Wear self-contained breathing appa	ratus and protective suit.
SECTION 6. ACCIDENTAL RELE	AS	E MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Use personal protective equipment.	
Environmental precautions	:	Should not be released into the env	ironment.
		It is recommended to implement sys as Operation Clean Sweep®) to pre plastics in to the environment.	
Methods and materials for containment and cleaning up	:	Dust deposits should not be allowed surfaces, as these may form an exp released into the atmosphere in suff Non-sparking tools should be used. Vacuum or sweep up spill. All spill of material must be removed slipping accidents. Recycle or dispose loose material p Do not flush into surface water or sa	losive mixture if they are ficient concentration. d immediately to prevent roperly.

SECTION 7. HANDLING AND STORAGE

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.
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.



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Conditions for safe storage Further information on storage stability	:	Avoid contact with skin and eye Safety aspects do not require a of storage. Keep in a dry place.	es. Iny special precautions in terms

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
maleic anhydride	108-31-6	TWA	0.25 ppm 1 mg/m3	NIOSH REL
		TWA	0.25 ppm 1 mg/m3	OSHA Z-1
		TWA	0.25 ppm 1 mg/m3	OSHA P0
		TWA (Inhalable fraction and vapor)	0.01 mg/m3	ACGIH
Engineering measures		Provide adequate ventilation. Local exhaust ventilation may be necessary.		
	local exhau involved in vents or ar	ust ventilation and handling of this pr	st control equipmen material transport s oduct contain explo ssion system or an	ystems sion relief
Personal protective equipm	nent			
Respiratory protection	In the case approved f When worl limit they n The filter c maximum (gas/vapou handling th	ilter. kers are facing con nust use appropria lass for the respira expected contamin ur/aerosol/particula	centrations above t centrations above t te certified respirato tor must be suitable ant concentration tes) that may arise oncentration is exce	he exposure ors. e for the when
Hand protection Material		Icohol (PVA, PVAL		
Material		ner plastic material		
Remarks	: Protective	gloves		



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Eye protection Skin and body protection Hygiene measures	 Please observe the instructions regore breakthrough time which are provide gloves. Also take into consideration conditions under which the product danger of cuts, abrasion, and the constructive clothing Protective clothing When using do not eat, drink or sm Wash hands before breaks and at 	ded by the supplier of the in the specific local t is used, such as the contact time.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets
Colour	:	natural colour
Odour	:	slight
рН	:	Not applicable insoluble
Melting point/range	:	212 - 284 °F / 100 - 140 °C
Boiling range	:	Decomposes on heating.
Flash point	:	Not applicable (solid)
Evaporation rate	:	Not applicable (solid)
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable (solid)
Density	:	0.9 - 1.0 g/cm³
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	Not applicable insoluble
Auto-ignition temperature	:	> 608 °F / > 320 °C
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	Not explosive



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Particle size : 3 - 10 mm

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	:	Stable under recommended storage conditions. The product is a stable thermoplastic. None known.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Extremes of temperature and direct sunlight. None known. 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

Acute toxicity

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

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

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

Germ cell mutagenicity

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

Carcinogenicity

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

- **IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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Reproductive toxicity 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 toxicity Based on available data, the classification criteria are not met. Further information Product: Remarks : 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.	ersion 2.0	Revision Date 04/18/2024	Former date 03/24/2022
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Product: Remarks : Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products	Based on available da	ta, the classification criteria are not met.	
Remarks : Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products	Further information		
Prolonged inhalation of high doses of decomposition products	Product:		
	Remarks	Prolonged inhalation of high doses	of decomposition products

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available Persistence and degradabili	ity	
<u>Product:</u> Biodegradability	:	Remarks: Not readily biodegradable.
Bioaccumulative potential		
Product: Bioaccumulation	:	Remarks: Does not accumulate in organisms.
Mobility in soil		
<u>Product:</u> Mobility	:	Remarks: Not expected to adsorb on soil. Remarks: The product is insoluble and floats on water.
Other adverse effects		
Product: Additional ecological information	:	Should not be released into the environment.



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 This substance, when discarded or disposed of is not specifically listed as a hazardous waste in Federal regulations. However, it could be hazardous if it is considered toxic, corrosive, ignitable or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste. The transportation, storage, treatment and disposal of this waste material must be conducted in accord-ance with all contineed to a substance.
Contaminated packaging	 applicable Federal, state and local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

1

Not applicable for product as supplied.

National Regulations

49 CFR Not regulated as a dangerous good

Special precautions for user

Remarks

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

SECTION 15. REGULATORY INFORMATION

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know



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poly[ether	ne-co-(1-octene)]	26221-73-8
polv[ether	ne-co-(butyl 2-propenoate)]	25750-84-9
maleic an		108-31-6
Maine Chemicals o	f High Concern	
Product d	oes not contain any listed chemicals	
Vermont Chemical	s of High Concern	
Product d	oes not contain any listed chemicals	
Weekington Ohem	and of the One and	

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. Borealis certifies that all chemical substances in this shipment comply with all applicable rules or orders under TSCA and that Borealis is not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

The product is classified and labelled in accordance with Hazard Communication Standard 2012 (29 CFR 1910.1200)

SECTION 16. OTHER INFORMATION

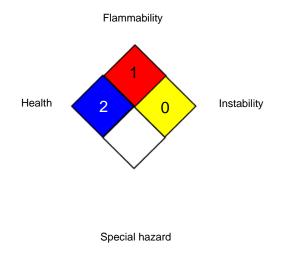
Further information



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NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH NIOSH REL	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population



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(Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Sources of key data used to	:	Safety data sheets of raw material suppliers.
compile the Safety Data		
Sheet		
Revision Date	:	04/18/2024

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.

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