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SAFETY DATA SHEET

NEUView Ba Conc

Section 1. Identification			
:	NEUView Ba Conc		
:	Mixture		
:	Mixture		
:	EM10034665		
:	solid		
Relevant identified uses of the substance or mixture and uses advised against			
:	Industrial applications. Plastics.		
:	POLYONE CORPORATION		
	33587 Walker Road, Avon Lake, OH 44012		
	1 (440) 930-1000 or 1 (866) POLYONE		
:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).		
::::::::::::::::::::::::::::::::::::::	ce		

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
Supplemental label elements	:	None known.



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Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	EM10034665

CAS number/other identifiers

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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects



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Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medica	l attentio	on and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specia

Notes to physician Specific treatments	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a

Large spill	 licensed waste disposal contractor. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
	contact information and Section 15 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept

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upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name]	Exposure limits
1,2-Propanediol		AIHA WEEL (1999-01-01)
		Time Weighted Average (TWA) 10 mg/m3
Appropriate engineering controls	: (Good general ventilation should be sufficient to control worker
		exposure to airborne contaminants.
Environmental exposure controls		Emissions from ventilation or work process equipment should be
		checked to ensure they comply with the requirements of
		environmental protection legislation. In some cases, fume scrubbers,
		filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
	1	necessary to reduce emissions to acceptable revers.
Individual protection measures		
Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical
		products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to
		remove potentially contaminated clothing. Wash contaminated
		clothing before reusing. Ensure that eyewash stations and safety
		showers are close to the workstation location.
Eye/face protection		Safety eyewear complying with an approved standard should be used
		when a risk assessment indicates this is necessary to avoid exposure to
		liquid splashes, mists, gases or dusts. If contact is possible, the
		following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
	1	inglici degree of protection, safety glasses with side-sinelds.
Skin protection		
Hand protection		Chemical-resistant, impervious gloves complying with an approved
Hanu protection		standard should be worn at all times when handling chemical products
		if a risk assessment indicates this is necessary.
Body protection		Personal protective equipment for the body should be selected based
	(on the task being performed and the risks involved and should be
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	approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures

selected respirator.

Respiratory protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

Section 9. Physical and chemical properties

:

Appearance

Physical state : solid [Pellets.]	
Color : NO PIGMENT	
Odor : Faint odor.	
Odor threshold : Not available.	
pH : Not available.	
Melting point : Not available.	
Boiling point : Not available.	
Flash point : Not available.	
Burning time : Not available.	
Burning rate : Not available.	
Evaporation rate : Not available.	
Flammability (solid, gas) : Not available.	
Lower and upper explosive : Lower: Not available.	
(flammable) limits Upper: Not available.	
Vapor pressure:Not available.	
Vapor density:Not available.	
Relative density : Not available.	
Solubility : Not available.	
Solubility in water : insoluble in water.	
Partition coefficient: n- octanol/water : Not available.	
Auto-ignition temperature : Not available.	
Decomposition temperature : Not available.	
SADT : Not available.	
Viscosity : Dynamic: Not available	

Section 10. Stability and reactivity



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Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,2-Propanediol				
	LD50 Oral	Rat	20,000 mg/kg	-
	LD50 Dermal	Rabbit	20,800 mg/kg	-
	LD50 Dermal	Rabbit	20,800 mg/kg	-
Conclusion/Summary	: Mixt	ture.Not fully tested.		

Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2-Propanediol	Skin - Mild irritant	Woman		96 hrs	-
	Skin - Mild irritant	Human		168 hrs	-
	Skin - Moderate irritant	Human		72 hrs	-
	Eyes - Mild irritant	Rabbit			-
	Eyes - Mild irritant	Rabbit		24 hrs	-
	Skin -	Child		96 hrs	-



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	Moderate					
	irritant					
Conclusion/Summary	mman		1	1	1	1
Skin	:	M	ixture.Not ful	v tested		
Eyes			ixture.Not ful			
Respiratory	:		ixture.Not ful			
Respiratory	•	101	ixture.ivot iui	ly tested.		
Sensitization						
Conclusion/Summary						
Skin	:	M	ixture.Not ful	ly tested.		
Respiratory	:		ixture.Not ful			
<u>Mutagenicity</u>						
Conclusion/Summary	:	M	ixture.Not ful	ly tested.		
Carcinogenicity						
Conclusion/Summary	:	M	ixture.Not ful	ly tested.		
<u>Reproductive toxicity</u>						
Conclusion/Summary	:	M	ixture.Not ful	ly tested.		
Teratogenicity						
Conclusion/Summary	:	M	ixture.Not ful	ly tested.		
Specific target organ toxicity Not available.	(single exp	osui	<u>re)</u>			
<u>Specific target organ toxicity</u> Not available.	(repeated e	expo	osure)			
<u>Aspiration hazard</u> Not available.						
Information on the likely rout exposure	tes of 🛛 :	No	ot available.			
Potential acute health effects						
Eye contact	:	Ne	h known signi	ficant effects o	or critical hazards.	
Inhalation					or critical hazards.	
	•	INC	5 KIIOWII SIGIII	ficant effects C	n entical nazarus.	



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Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	•	No known significant cricets of critical nazards.
Symptoms related to the physical, ch	emic	cal and toxicological characteristics
Ene contect		No specific dota
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effects and a	lso c	hronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	-	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
-		
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxicity		

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity



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Product/ingredient name	Result	Species	Exposure
1,2-Propanediol			· -
	Acute LC50 710,000 µg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 34,060 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 55,770,000 µg/l Fresh water	Fish - Fathead minnow	96 h
	Acute EC50 10,000,000 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 1,000 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 1,000 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 110 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
NEUView Ba Conc			
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available	as they are bound within the	e polymer matrix.
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ly available as they are bound	nd within the
Persistence and degradabilit	<u>v</u>		
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ly available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ly available as they are bou	nd within the

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,2-Propanediol	-1.070.085	-	low

Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations



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Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed
	United States - TSCA 6 - Proposed risk management: Not listed
	United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
	United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not



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determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b)	:	Not listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
Clean Air Act Section 602 Class II	:	Not listed
Substances		
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
1,2-Propanediol	1 - 5	AH

<u>SARA 313</u>

Not applicable.

State regulations



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Massachusetts	: The following components are listed: Barium sulfate
New York	: None of the components are listed.
New Jersey	: The following components are listed: Barium sulfate 1,2-Propanediol
Pennsylvania	: The following components are listed: Barium sulfate 1,2-Propanediol

California Prop. 65

This PolyOne product does not contain any chemical known to the State of California to cause cancer, or birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65. This statement relies in part on information provided by the buyer of this PolyOne product. PolyOne does not control or have complete knowledge of the end uses to which that buyer or any other entity in the chain of distribution and marketing may put this PolyOne product. Therefore, the buyer of this PolyOne product, each entity that uses this PolyOne product in formulating another product, and each entity in the chain of distribution and marketing of any product that includes the material in this PolyOne product must make its own decision as to giving a Proposition 65 warning.

United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
International lists	:	 Australia inventory (AICS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. EINECS: All components are listed or exempted. Japan inventory: Not determined. China inventory (IECSC): All components are listed or exempted. Korea inventory: All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed



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Section 16. Other information

<u>History</u>		
Date of printing	:	01/22/2015
Date of issue/Date of revision	:	01/21/2015
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
•		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL 73/78 = International Convention for the Prevention of Pollution
		From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.