



AstroFusion Pro 2k Part A

1	PRODUCT AND COMPANY IDENTIF	ICATION	
Product Identifier: Revision Date:	AstroFusion Pro 2k Part A 1/15/2018		
Supplier Details:	Advanced Polymer Technology P.O. Box 160 109 Conica Lane Harmony, PA 16037	Vendor Details:	AstroTurf 2680 Abutment Rd Dalton, GA 30721
Contact: Phone: Fax: Email: Web:	Senior Chemist 724-452-1330 724-452-1703 info@advpolytech.com www.advpolytech.com	Phone:	800-723-8873

Transportation emergency phone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585

2 HAZARDS IDENTIFICATION	
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Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS): No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: NONE

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

No GHS precautionary statements indicated

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to GHS regulations. The product is not classified according to the CLP regulation.

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COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas# % Chemical Name

8001-79-4	25-50%	Castor oil
7727-43-7	10-25%	Barium sulfate
1317-65-3	10-25%	Calcium carbonate
25054-06-2	<10%	Formaldehyde, polymer with cyclohexanone
70775-94-9	<10%	Sulfonic acids, C10-18-alkane, Ph esters
1308-38-9	<10%	Chromium (III) oxide
770-35-4	<10%	2-Propanol, 1-phenoxy-
50-00-0	<0.1%	Formaldehyde

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Clean with water and soap. If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Water haze or fog

Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

Most important symptoms and effects, both acute and delayed Gastric or intestinal disorders

Hazards No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5	FIRE FIGHTING MEASURES
Flash Point:	>392 °F / >200 °C (DIN 51758)
Suitable extinguishing age Foam Fire-extinguishing powder Gaseous extinguishing age Carbon dioxide	

For safety reasons unsuitable extinguishing agents: Water with full jet Water spray

Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide (CO) Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information Cool endangered receptacles with water fog or haze. No further relevant information available. Wear protective clothing. Ensure adequate ventilation

6

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7	HANDLING AND STORAGE
Handling Precautions:	No special precautions are necessary if used correctly.
Storage Requirements:	Information about fire - and explosion protection: No special measures required. Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame. Store in a cool location.
	Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with oxidizing and acidic materials.
	Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 EXPO	SURE CONTROLS/PERSONAL PROTECTION
Engineering Controls:	Educate and train employees in safe use of this product. Follow all label instruction. Local exhaust should be used to maintain levels below the TLV whenever this product is processed, heated or spray applied. For spray applications, an air-supplied respirator must be worn. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).
Personal Protective Equipment:	General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
	Avoid contact with the eyes.
	Respiratory protection: Not required under normal conditions of use.
	Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to bechecked prior to the application. Penetration time of glove material
	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. For the permanent contact gloves made of the following materials are suitable: Rubber gloves
	Eye protection: Safety glasses
	Body protection: Not required under normal conditions of use. Protection may be required for spills.
	Limitation and supervision of exposure into the environment No further relevant information available.
	Risk management measures See Section 7 for additional information. No further relevant information available.
Ingredients with limit values 7727-43-7 barium sulphate, PEL (USA) 15* 5** mg/m ³ *to REL (USA) 10* 5** mg/m ³ *to TLV (USA) 10 mg/m ³ EL (Canada) 10 mg/m ³ EV (Canada) 10 mg/m ³ total of	tal dust **respirable fraction tal dust **respirable fraction
1308-38-9 dichromium triox IOELV (EU) 2 mg/m ³ as Cr REL (USA) 0,5 mg/m ³ as Cr TLV (USA) 0,5 mg/m ³ as Cr EL (Canada) 0,5 mg/m ³ as Cr	
DNELs No further relevant in PNECs No further relevant in	

Additional information: The lists valid during the making were used as basis.

9	PHYSICAL AND CHEMICAL PROPER	RTIES	
Appearance: Physical State: Spec Grav./Density:	Clear Liquid Liquid 1,3 g/cm³	Flash Point: VOC:	>392 °F / >200 °C (DIN 51758) 0 g/L
10	STABILITY AND REACTIVITY		
Chemical Stability: Conditions to Avoid: Materials to Avoid:	No decomposition if used and Store away from oxidizing age Reacts with strong oxidizing a Reacts with strong acids and	ents. agents.	cations.
Hazardous Decomposition	C C		
Hazardous Polymerizatio	on: Will not occur.		

11	TOXICOLOGICAL INFORMATION
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Acute toxicity:

Primary irritant effect:

on the skin: Slight irritant effect on skin and mucous membranes. on the eye: Slight irritant effect on eyes.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12	ECOLOGICAL INFORMATION
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Aquatic toxicity: No further relevant information available.

Persistence and degradability The product is partially biodegradable. Significant residuals remain.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information: General notes:

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No further relevant information available.

13	DISPOSAL CONSIDERATIONS

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 TRANSPORT INFORMATION

UN-Number DOT, ADR, ADN, IMDG, IATAN/AUN proper shipping name DOT, ADR, ADN, IMDG, IATAN/ATransport hazard class(es) DOT, ADR, ADN, IMDG, IATA ClassN/APacking group DOT, ADR, IMDG, IATAN/AMarine pollutantNoSpecial precautions for userNot applicable.Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applicable.UN "Model Regulation"---

15

REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Castor oil (8001794 25-50%) TSCA

*Barium sulfate (7727437 10-25%) MASS, OSHAWAC, PA, TSCA, TXAIR

*Calcium carbonate (1317653 10-25%) MASS, OSHAWAC, PA, TSCA, TXAIR

*Formaldehyde, polymer with cyclohexanone (25054062 <10%) TSCA

*Sulfonic acids, C10-18-alkane, Ph esters (70775949 <10%) TSCA

*Chromium (III) oxide (1308389 <10%) MASS, TSCA

*2-Propanol, 1-phenoxy- (770354 <10%) TSCA

*Formaldehyde (50000 <0.1%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, NRC, OSHAHTS, OSHAPSM, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

REGULATORY KEY DESCRIPTIONS

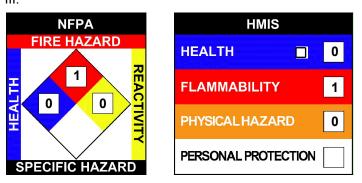
TSCA = Toxic Substances Control Act

MASS = MA Massachusetts Hazardous Substances List OSHAWAC = OSHA Workplace Air Contaminants PA = PA Right-To-Know List of Hazardous Substances TXAIR = TX Air Contaminants with Health Effects Screening Level

CERCLA = Superfund clean up substance CSWHS = Clean Water Act Hazardous substances EHS302 = Extremely Hazardous Substance EPCRAWPC = EPCRA Water Priority Chemicals HAP = Hazardous Air Pollutants NJEHS = NJ Extraordinarily Hazardous Substances NJHS = NJ Right-to-Know Hazardous Substances NRC = Nationally Recognized Carcinogens OSHAHTS = OSHA Hazardous and Toxic Substances OSHAPSM = OSHA Hazardous Requiring process safety management PROP65 = CA Prop 65 SARA313 = SARA 313 Title III Toxic Chemicals TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List) TXHWL = TX Hazardous Waste List

16	OTHER INFORMATION
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NFPA: Health = 0, Fire = 1, Reactivity = 0, Specific Hazard = n/a HMIS Health = 0, Fire = 1, Physical Hazard = 0 III:



This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.