



**Section 1 Identification**

**Product Identifier** **BLUE-29** **CAS#** Mixture

**Product Description** Aqueous dispersion of Ultramarine Blue pigment. **Active Solids** **40%**

**Synonym(s)** (Active chemicals) Sodium alumino sulpho silicate; Color Index: Pigment blue 29: 77007; CAS# 57455-37-5

**Relevant Uses** Color additive for latex and paper applications.

**Uses advised against** Not information available.

**Company** Aardvark Colors **Tel.** (718) 599-7857  
245 Kent Ave, Brooklyn, NY 11249

**Section 2 Hazard Identification**

**OSHA Regulatory Status** **Non-Hazardous** According to the criteria of Federal Hazard Communication HCS 29 CFR 1910.1200.

**GHS Mixture Classification** Not classified

**GHS Pictogram(s)** **None** **Signal Word** **None**

Percentage of mixture consisting of ingredients of unknown toxicity: **<0.5%**

**Hazard Statements** None

**Precautionary Statements** P281 Use personal protection equipment as required.

P501 Dispose of contents/container in accordance with local, regional, national & international regulation.

**OSHA- HNOC** In its original form an active ingredient(s) is classified as a nuisance dust which may aggravate existing respiratory problems; however as presented in water based dispersion this hazard is significantly and/or totally diminished. Avoid exposure to or creating dust from dried dispersion.

<b>HMIS Rating Index</b>	<b>Health</b> <b>0</b>	<b>Fire</b> <b>0</b>	<b>Reactivity</b> <b>0</b>	<b>Personal</b> <b>E</b>
	0 = Minimal	1 = Slight	2 = Moderate	3 = High
	4 = Extreme	A= Eye / Clothing	B= Eye Protection / Gloves	E= Eye Protection / Clothing / Dust Mask / Gloves

**Remarks:** The customer is ultimately responsible for determining the PPE code for use of this material in their process.

**Potential Health Effects** Dust from dried dispersion may cause mechanical irritation to eyes, irritation and drying of skin.

**Section 3 Composition and Information on Ingredients**

**Product Description** Mixture **Occupational exposure limits, are listed in Section 8.**

<u>Ingredient(s)</u>	<u>CAS#</u>	<u>% by Weight</u>	<u>Hazardous Status</u>
Water	7732-18-5	57.5 - 59.5	Not Classified
Sodium alumino sulpho silicate	57455-37-5	39 - 41	Not Classified
Sulfonated Naphthalene Condensate, NA Salt	Mixture	0 - 1	Not Classified
Miscellaneous wetting / suspension additive(s)	Mixture	0 - 1	Not Classified



**Section 4 First Aid Measures**

**Description of first-aid measures after exposure**

- Eyes** Immediately flush eyes with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if eye irritation develops or persists.
- Skin** Wash thoroughly with soap and plenty of water. If skin irritation occurs, seek medical attention.
- Ingestion** Non-toxic. If swallowed, rinse mouth with water. Consult with a physician if discomfort occurs.
- Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.

**Information for physician, most important symptoms / effects, acute and delayed / over-exposure symptoms**

See labeling in Section 2. No additional symptoms are known.

**Indication of any immediate medical attention and special treatment needed, if necessary**


**Physician Notes** The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

**Section 5 Fire Fighting Measures**

- Remarks** This product is a water based mixture, non-flammable and not readily combustible as supplied.
- Extinguishing Media** Suitable agent(s):  Water Spray  Foam  Dry Powder  CO2  
Unsuitable for extinguishing agent(s): None report from raw material manufacturer.
- Decomposition Hazard** Fire sustained from other materials may cause a chemical change and release sulfur dioxide gas.
- Advice to 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.
- Additional Remarks** Fire extinguishing water runoff should not be allowed to enter into lakes, waterways and/or sewer systems.

**Section 6-Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

- Non-Emergency** Follow good industrial hygienic practices with rubber gloves, safety goggles and an approved NIOSH dust/mist respirator when applicable. Provide adequate ventilation if necessary.
- Emergency procedure** No action should be taken involving any personnel risk without suitable training. Keep unnecessary / unprotected personnel from entering spill area. Do not touch spilled material; avoid contact with skin, eyes and clothing. Put on appropriate protective equipment, clothing and/or Tyvek type overall.
- Personal Protection** Avoid contact with skin, eyes & clothing. Put on appropriate personal protective equipment, e.g. in cases of dust generation wear a respirator. Wear chemically resistant gloves. Use suitable eye protection. Wear suitable coveralls to prevent exposure to the skin.  

- Environmental** Contained spilled product if possible. Do not allow to enter water streams and/or sewer systems if spill is not contained. Reporting may be required by your local authorities/regulations.
- Spill Procedure** Prevent further leakage if possible. Spread absorbent material to contain. Spill or vacuum up and place in labeled containers. Avoid creating dust formations, as combustion hazards are possible.
- Reference** See Section 7 for information on safe handling. Section 8 for information on personal protection equipment. See Section 13 for disposal information

**Section 7 Handling and Storage****Precautions for safe handling (See Section 8 for PPE)****Industrial hygienic**

Observe good practices prohibit eating, drinking and smoking in work areas. Wash after handling. Persons with a history of skin sensitization problems should not be exposed to this material. Avoid contact with eyes and skin. Launder clothes before reuse.

**Conditions for safe storage, including incompatibilities**

**Temperature** **PROTECT FROM FREEZING!** Storage temperature range 50° - 100°F recommended.

**Storage** Avoid storage near acids or flammable materials. Keep drums tightly sealed until ready for use.

**Incompatibles** Contact with acids liberates hydrogen sulfide, a highly flammable toxic gas.

**Maintaining integrity of the mixture**

**Usage** Mix thoroughly before use. Some settling of material may occur on standing. Mixing provides uniform results.

**Evaporation/spoilage** Reseal drums tightly when not in use to avoid evaporation, contamination and/or spoilage.

**Empty drums** Empty containers contain product residue and can be hazardous, check regional, national and local regulations. Do not reuse container unless you have determined compatible use.

**Other remarks** Spilled product may create very slippery conditions, use caution walking into spill area.

**Section 8 Exposure Controls and Personal Protection**

**Exposure Limits** **No specific limits are established dispersion;** therefore in the case of brief exposure use of a respiratory filter device is recommended to maintain good industrial hygiene practices to avoid dusts formed from dried dispersion.

Recommended filter device for short-term use: US- N95 EU- Type A/P2

**Component Limits** Sodium alumino sulpho silicate OSHA PEL, TWA 15 mg/m<sup>3</sup> (Nuisance dust limits)

**Individual protection measures, such as personal protective equipment (PPE)**

**PPE** Observe good practices prohibit eating, drinking and smoking in work areas. Wash thoroughly after handling. Use properly fitted dust/respirator mask. Wear chemical resistant gloves, and approved safety eye protection. Wash clothing after exposure or wear disposal covering.



**Remarks** Avoid prolonged or repeated skin contact. Wash thoroughly before eating, drinking, smoking or applying cosmetics. Launder clothes before reuse. End-User: Determine appropriate safety equipment relative to individual manufacturing process/use.

**Appropriate engineering controls**

Engineering controls are not usually necessary if good industrial hygiene practices are followed. The active ingredient as a dry powder may form explosive dust /air mixtures, avoid creating dust if the dispersion is air dried during processing.

**Section 9 Physical and Chemical Properties**

<b>Physical State</b>	Liquid, aqueous dispersion	<b>Color</b>	Blue
<b>Active Solids</b>	40.0% (±1)	<b>Odor</b>	None - Mild
<b>pH @ 21°C</b>	8.0 - 10.5	<b>Odor Threshold</b>	Not determined
<b>Viscosity @ 20°C</b>	100 - 500 cps (#2 Spindle @ 30 rpm)	<b>Freeze / Boiling Pt</b>	0°C (32°F) / 100 °C (212°F) (Aqueous Portion)
<b>Specific Gravity</b>	~1.31	<b>Flash Point:</b>	Mixture is not flammable as supplied
<b>Solubility - Water</b>	Active solids within dispersion are insoluble.	<b>Melt Point:</b>	No information available
<b>Evaporation Rate:</b>	~ 60.0% (Aqueous Portion)	<b>Vapor Pressure / Density:</b>	No information available
<b>Initial / Range Boiling Point:</b>	100°C / 212°F (water portion)	<b>Decomposition Temperature</b>	400°C /750°F (active ingredient)
<b>Auto-ignition Temperature:</b>	Mixture is not flammable	<b>Flammability (upper/lower limits):</b>	Mixture is not flammable
<b>Partition coefficient , n-octanol/water</b>	No information available		
<b>Other Information / Remarks</b>	None		

**Section 10 Stability and Reactivity**

<b>Reactivity</b>	No dangerous reactions reported by the chemical manufacturer under normal conditions of use.
<b>Chemical stability</b>	Stable under normal conditions. Store in original container, keep drum tightly covered.
<b>Possibility of hazardous reactions</b>	None expected.
<b>Conditions to avoid</b>	<b>DO NOT FREEZE!</b> Avoid extreme temperatures, and direct sunlight.
<b>Incompatible materials</b>	Avoid contact with strong acids or bases and oxidizing agents.
<b>Hazardous decomposition products</b>	Hazardous decomposition from burning may produce oxides of carbon gases and smoke.
<b>Additional information</b>	No data.

**Section 11 Toxicological Information**

**Most likely routes of exposure handling this product using good industrial hygiene practices:** Eye and skin contact.

**Toxicological Effects Information**

<b>Acute toxicity</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation - 4 hr</b>
Sodium alumino sulpho silicate	> 10,000 mg/kg (Rat)		
Sulfonated Naphthalene Condensate, NA Salt	> 3000 mg/kg (Rat)	> 2000 mg/kg (rat)	

<b>Irritation / Corrosion</b>	<b>Eye</b>	<b>Skin</b>
Sodium alumino sulpho silicate	No irritation	No irritation
Sulfonated Naphthalene Condensate, NA Salt	Slight irritant	Mild irritant.

**Sensitization** Respiratory or skin: Not classified due to data which is conclusive although insufficient for classification.

**Mutagenicity** Not classified

**Reproductive** Not classified

**Teratogenicity** Not classified

**Carcinogenicity** No ingredient(s) present at levels  $\geq 0.1\%$  are identified as a carcinogen or potential carcinogen by: OSHA, IARC, ACGIH or NTP.

**STOT –Exposure** Not classified

This mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration Hazard** No data reported by the chemical manufacturer.

**Acute Toxicity Estimate** **Percentage of mixture consisting of ingredients of unknown toxicity:** **<0.5%**

<b>Route</b>	<b><u>Oral</u></b>
<b>ATE Value of mixture</b>	23,566 mg/kg

**Section 12 Ecological Information****Ecological Data / Information on ecological effects**

<b>Acute toxicity</b>	<b>LC50</b>	<b>EC50</b>
Sodium alumino sulpho silicate	>32,000 mg/L / 96 hr /Fish	> 90% / 24 hr / Daphnia magna
<b>Persistence &amp; degradability</b>	Not classified due to lack of data.	
<b>Bioaccumulative potential</b>	Not classified due to lack of data.	
<b>PBT / vPvB Assessment</b>	The active ingredient is not considered to be persistent, bioaccumulating and toxic (PBT).	
<b>Mobility</b>	No data available. Aqueous portion will evaporate.	
<b>Distribution to Environment</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
<b>Other adverse effects</b>	Avoid release into ground water, waterways and/or sewage systems.	

**Section 13 Disposal Consideration**

<b>Waste treatment methods</b>	<u>Recommendation:</u> Examine possibilities for re-utilization. Product residues and unclean empty containers should be sealed, labeled, and disposed of or recycled according to relevant national and local regulations.
<b>Container Disposal</b>	Do not re-use empty containers; the recipient must be warned of any possible hazard that may be caused by residues. Disposal must be made according to official regulations.
<b>RCRA Status</b>	Not regulated, and not subject to reporting as it is not identified as a hazardous waste under 40 CFR 261.
<b>Environmental information</b>	Do not put into public waterways or sewer systems. Do not put into waste water drains or dispose where there is risk of contact with acids.

**Section 14 Transport Information**

Regulatory Info	UN No.	Proper Shipping Name	Classes	Pkg.	Remarks	Label
DOT		Not Regulated	n/a	n/a	n/a	n/a
<b>Remarks: Do not transport with acids.</b>						
ICAO / IATA IMDG / TDG		Not Regulated	n/a	n/a	n/a	n/a

**Section 15 Regulatory Information****Safety, health and environmental regulations specific for the mixture**

**OSHA Hazards (29 CFR 1910.1200)** Harmful by ingestion, mild skin irritant.

**SARA Title III Hazards Notification**

**SARA 302/304** No component(s) listed.

**SARA 311/312** No component(s) listed.

**SARA 313** No component(s) listed.

**TSCA 8(b)** All functional components of this product are either exempt or listed on the TSCA Inventory.

**TSCA 12(b)** Product does not contain any components that are subject to TSCA 12(b) Export Notification.

**Clean Air Act 1990 (CAA, Section 112, 40 CFR 82)** Product does not contain any components listed as a hazardous Air Pollutant, Flammable Substance, Toxic Substance or Class 1 or 2 Ozone Depletor.



**Section 15 Regulatory Information (continued)**

**Clean Water Act** (CWA) Product does not contain any components regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA (CFR 302)** Product does not contain any components regulated as hazardous substances.

**California Prop 65** This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

**US Right-to Know** No data reported.

**International Lists** No data reported.

**Section 16 Other Information**

**Other Information** None data to report.

**Reference(s)** Information compiled from raw material SDS document(s): Holliday Pigments SAS, Rev: 5-Feb-17 / Version 6

**Revision Remarks** Update & review.

**Date Printed** 14 March 2019      **Revision Date:** 14 Mar 2019      **Supersedes:** 2 Dec 2015

**Prepared By** F. Steven DiMasi, VP Mfg/QA      **Information Contact Number** (401) 783-5887

<b>Abbreviation Legend</b>			
OSHA: Occupational Safety and Health Administration	NIOSH: The National Institute for Occupational Safety and Health	ACGIH: The American Conference of Governmental Industrial Hygienists	TWA: Time weighted average
PEL: Permissible exposure limit	REL: Recommended exposure limits	TLV: Threshold limit value	STEL: Short term exposure limit
GHS : Globally Harmonized System	EINECS: European Inventory of Existing Commercial Chemical Society	ELINCS: European List of Notified Chemical Substances	CAS: Chemical Abstracts Service
IATA: International Air Transport Association	IMDG: International Maritime Code for Dangerous Goods	ICO: International Civil Aviation Organization	P: Marine Pollutant
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act	CWA: Clean Water Act	r.a.: read across	HNOC: Hazards not otherwise classified
NOEL: No observed effect level	NOEC: No observed effect concentration	STOT: Specific target organ toxicity	

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