

Marker Pen
Safety Data Sheet

64981-XXXX

according to US HazCom 2012
Issue date: 3/15/2024 Revision date: 3/15/2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product Name : Alpha Flex Paint Marker

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Drawing.

1.3. Supplier

Alpha 6 Corp
15336 Dale Street
Detroit, Michigan

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification
Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling
No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Water	CAS-No.: 7732-18-5	65
Carbon black	CAS-No.: 1333-86-4	6 – 15

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Name	Product identifier	%
Benzenesulfonic acid, 4-[(2,4-diamino-5-methylphenyl)azo]-, monosodium salt, mixture with 4,4'-[(2,4-diamino-1,3-phenylene)bis(azo)]bis[benzenesulfonic acid], disodium salt	CAS-No.: 8062-14-4	0 – 15
1,2,3-Propanetriol CAS-No.: 56-81-5		0 – 12
Xanthylum, 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-CAS-No.: 68310-07-6		1 – 9
Polyoxyethylene sorbitan monolaurate CAS-No.: 9005-64-5		0 – 8
C.I. Acid Blue 9, disodium salt CAS-No.: 3844-45-9		0 – 8
C.I. Leuco Sulphur Blue 7 CAS-No.: 69900-21-6		0 – 6
C.I. Acid Red 52 CAS-No.: 3520-42-1		1 – 4
C.I. Acid Yellow 23 CAS-No.: 1934-21-0		0 – 3

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. :
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.
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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
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Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Suitable packaging material : Polytetrafluoroethylene/PE/metal barrel.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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1,2,3-Propanetriol (56-81-5)	
USA - OSHA - Occupational Exposure Limits	
Local name	Glycerin (mist)
OSHA PEL TWA	15 mg/m³ (mist, total particulate) 5 mg/m³ (mist, respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Carbon black (1333-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Carbon black
ACGIH OEL TWA	3 mg/m³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon black
OSHA PEL TWA	3.5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH	1750 mg/m³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)

8.2. Appropriate engineering controls

Appropriate engineering controls

Environmental exposure controls

: Ensure good ventilation of the work station. :
Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Impermeable protective gloves. protective gloves
Eye protection:
Chemical goggles or safety glasses. Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable respiratory equipment in case of insufficient ventilation
Other information:
Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Black,Red,Blue,Yellow,Orange,Pink,Purple,Green,Brown,Gray
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met) :
 Acute toxicity (dermal) Not classified (Based on available data, the classification criteria are not met) :
 Acute toxicity (inhalation) Not classified (Based on available data, the classification criteria are not met)

Polyoxyethylene sorbitan monolaurate (9005-64-5)

LD50 oral rat	37000 mg/kg (Source: NLM_HSDB)
LC50 Inhalation - Rat	> 5.1 mg/l/4h

1,2,3-Propanetriol (56-81-5)

LD50 oral rat	12600 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 10 g/kg (Source: NLM_CIP)
LC50 Inhalation - Rat (Dust/Mist)	50100 mg/l

Carbon black (1333-86-4)

LD50 oral rat	> 8000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) >
LD50 dermal rat	2000 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA

C.I. Acid Yellow 23 (1934-21-0)

LD50 oral rat	> 2000 mg/kg (Source: NLM_HSDB)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Carbon black (1333-86-4)

IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

C.I. Acid Blue 9, disodium salt (3844-45-9)

IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

1,2,3-Propanetriol (56-81-5)

EC50 - Other aquatic organisms [1]	> 10000 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 10000 mg/l

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Carbon black (1333-86-4)

LC50 - Fish [1]	> 1000 mg/l Source: NITE
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	> 10000 mg/l Source: ECHA

C.I. Acid Blue 9, disodium salt (3844-45-9)

LC50 - Fish [1]	220 – 460 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	132 – 276 mg/l Test organisms (species): Leuciscus idus
EC50 96h - Algae [1]	5470000000 mg/l Source: Ecological Structure Activity Relationships
LOEC (chronic) NOEC	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d' ≥
(chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

C.I. Acid Yellow 23 (1934-21-0)

LC50 - Fish [1]	> 120 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) >
EC50 - Crustacea [1]	125 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 125 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

Polyoxyethylene sorbitan monolaurate (9005-64-5)

Persistence and degradability	Rapidly degradable
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1,2,3-Propanetriol (56-81-5)

Persistence and degradability	Not rapidly degradable
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C.I. Acid Blue 9, disodium salt (3844-45-9)

Persistence and degradability	Not rapidly degradable
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C.I. Acid Yellow 23 (1934-21-0)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

Polyoxyethylene sorbitan monolaurate (9005-64-5)

Partition coefficient n-octanol/water (Log Pow)	1.23
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1,2,3-Propanetriol (56-81-5)

BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1.75 (at 25 °C (at pH 7.4)

Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow)	-1.38
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C.I. Acid Blue 9, disodium salt (3844-45-9)	
Partition coefficient n-octanol/water (Log Pow)	< -6.4 (at 23 °C (at pH 6.4)
C.I. Acid Red 52 (3520-42-1)	
Partition coefficient n-octanol/water (Log Pow)	-2.2 (at 20 °C (at pH 6.1)
C.I. Acid Yellow 23 (1934-21-0)	
Partition coefficient n-octanol/water (Log Pow)	-10.17 Source: National Library of Medicine
12.4. Mobility in soil	
Polyoxyethylene sorbitan monolaurate (9005-64-5)	
Mobility in soil	239700000 Source: EPISUITE

12.5. Other adverse effects

Effect on the ozone layer : Not classified
 Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. :
 Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.
 Ecological information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

DOT
 Not regulated

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TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Benzenesulfonic acid, 4-[(2,4-diamino-5-CAS-No. 8062-14-4 0 – 15% methylphenyl)azo]-, monosodium salt, mixture with 4,4'-[(2,4-diamino-1,3-phenylene)bis(azo)]bis[benzenesulfonic acid], disodium salt		
C.I. Leuco Sulphur Blue 7 CAS-No. 69900-21-6 0 – 6%		

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. US State regulations

 WARNING:

This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to US HazCom 2012

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.