Safety Data Sheet 25-001

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ColorScape® 460

SECTION 1. IDENTIFICATION

Product Identifier	ColorScape® 460
Product Family	ColorScape®
Recommended Use	Chemical admixtures for manufactured concrete products.
Restrictions on Use	For industrial use only.
Manufacturer	ACM Chemistries, Inc., P.O. Box 920430, Norcross, GA, 30010, (770) 417-3490
Emergency Phone No.	CHEMTREC, (800)-424-9300, 24 hours
SDS No.	025-001
Date of Preparation	April 4, 2025

SECTION 2. HAZARDS IDENTIFICATION

2.1 GHS Classification

Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2A
Skin Sensitization – Category 1A

2.2 GHS Label Elements And Signal Word

Warning

2.3 Hazard Statements

H303 - May be harmful if swallowed
H315 - Causes skin irritation.
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction

2.4 Prevention:

P280 - Wear protective gloves and eye protection.
P264 - Wash hands and skin thoroughly after handling.

2.5 Response:

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation occurs: Get medical attention.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Product Mixture:

Chemical Name	CAS No.	Percentage
Triethoxy(octyl)silane	2943-75-1	≤ 25.0
Fatty alcohol ethoxylated	78330-21-9	≤ 5.0
5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)	00111-42-2	≤ 1.0

SECTION 4. FIRST-AID MEASURES

4.1 Description of First-aid Measures

4.1.1 If Inhaled

Move to fresh air.

4.1.2 In case of skin contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs get medical advice/attention.

4.1.3 In case of eye contact

Wear chemical protective gloves if necessary. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

4.1.4 If swallowed

Rinse mouth with water. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Get medical advice/attention if you feel unwell or are concerned.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

If on skin: can cause effects as described for skin contact. If in eyes: may cause mild irritation.

4.3 Immediate Medical Attention and Special Treatment

No special instructions

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

5.2 Specific Hazards Arising from the Chemical

In a fire, the following hazardous materials may be generated: carbon monoxide, carbon dioxide, nitrous oxides, silicon oxides, and sulfur oxides.

5.3 Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a safe distance or a protected location.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

5.4 Further Information

No data Available

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

6.2 Environmental Precautions

It is good practice to prevent release into the environment.

6.3 Methods and Materials for Containment and Cleaning Up

6.3.1 Small spills or leaks

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

6.3.2 Large spills or leaks

Dike spilled products to prevent runoff. Remove or recover liquid using pumps or vacuum equipment.

6.4 Reference to other sections

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Prevent skin contact. Do not get in eyes.

Avoid breathing in this product.

Only use where there is adequate ventilation.

Wear personal protective equipment to avoid direct contact with this chemical. Keep containers tightly closed when not in use or empty.

General hygiene considerations: do NOT eat, drink or store food in work areas. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

7.2 Conditions for Safe Storage

Protect from freezing.

7.3 Specific end use(s)

No other uses except those mentioned in section 1

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Ingredients with workplace control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	ACGIH TLV 8-hr. TWA (mg/m^3)	OSHA PEL 8-hr. TWA (mg/m^3)	NIOSH IDLH

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Change contaminated clothing. Preventive skin protection is recommended. Wash hands after contact with substance

8.2.2 Personal protective equipment

8.2.2.1 Eye/Face Protection

Wear chemical safety goggles.

8.2.2.2 Skin Protection

Wear impervious rubber gloves to prevent prolonged or repeated contact. Suitable materials are nitrile rubber, natural rubber, butyl rubber.

8.2.2.3 Body Protection

Wear protective clothing.

8.2.2.4 Respiratory Protection

Not normally required if product is used as directed.

8.2.2.5 Control of environmental exposure

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Color	Off white
Odor	Mild chemical smell
Odor Threshold	No data available
pH	7.0 - 8.0
Melting point	No data available

Freezing point	No data available
Initial Boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	0.9700-0.9850
Water solubility	No data available
Partition coefficient: n-Octanol/Water (Log Know)	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity (cP)	700-800
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

None

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None known.

10.2 Chemical Stability

Normally stable.

10.3 Possibility of Hazardous Reactions

None known.

10.4 Conditions to Avoid

Freezing. Contamination. Temperatures below 4.4 ºC (40.0 ºF)

10.5 Incompatible Materials

Avoid contact with strong oxidizing agents and acids.

10.6 Hazardous Decomposition Products

No data Available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects

11.1.1 Acute Toxicity

Chemical Name	LD50 (oral)	LD50 (dermal)
Triethoxy(octyl)silane	5,110 mg/kg (rat)	6730 mg/kg (rabbit)
Fatty alcohol ethoxylated	200 - 2,000 mg/kg (rat)	Not Determined
5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)	4,460 mg/kg (rat)	>5,000 mg/kg (rat)

11.1.2 Skin Corrosion/Irritation

May cause irritation based on information for closely related chemicals.

11.1.3 Serious Eye Damage/Irritation

May cause irritation based on information for closely related chemicals.

11.1.4 Respiratory and/or Skin Sensitization

No information was located.

11.1.5 Germ cell mutagenicity

No data available

11.1.6 Carcinogenicity

No data available

11.1.7 Reproductive Toxicity

No information was located.

11.1.8 Specific target organ toxicity – single exposure

No data available

11.1.9 Specific target organ toxicity – repeated exposure

No data available

11.1.10 Aspiration hazard

No data available

11.2 Additional information

None

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such information is available.

12.1 Toxicity

12.1.1.1 Toxicity to fish

Triethoxy(octyl)silane: Flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.055 mg/l - 96h

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Not Determined

12.1.1.2 Toxicity to daphnia and other aquatic invertebrates

Triethoxy(octyl)silane: Flow-through test EC50 - Daphnia magna (Water flea) - > 0.049 mg/l - 48 h

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC_{50} / 48 h 6.7 mg/l (Daphnia) (OECD 202) - S 52 (b) Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

12.1.1.3 Toxicity to algae

Triethoxy(octyl)silane: Static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 0.13 mg/l – 72h

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC_{50} / 72 h 0.048 mg/l (Pseudokirchneriella subcapitata) (OECD 201) - S 1322 Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

12.1.1.4 Toxicity to bacteria

Triethoxy(octyl)silane: EC50 - activated sludge - > 1,000 mg/l - 3 h

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC_{50} / 3 h 7.92 mg/l (Activated Sludge) (OECD 209) Depending on concentration, toxic effects on activated sludge organisms are possible

12.2 Persistence and Degradability

12.2.1.1 Biodegradability

Triethoxy(octyl)silane: aerobic - Exposure time 28d - Result: 31.5 % - Not readily biodegradable.

Fatty alcohol ethoxylated: 10.75 % (BOD5:COD) x 100

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): OECD 301 D Closed-Bottle-Test: >60

% (Activated Sludge) The component(s) is (are) rapidly degradable.

12.3 Bioaccumulative Potential

Triethoxy(octyl)silane: Not Determined

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Does not accumulate in organisms .

12.4 Mobility in Soil

Triethoxy(octyl)silane: Not Determined

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): No further relevant information available.

12.5 Results of PBT and vPvB assessment

Triethoxy(octyl)silane: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): This mixture does not contain substances that meet the PBT-criteria or the vPvB-criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

Triethoxy(octyl)silane: Not Determined

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Not Determined

12.7 Other adverse effects

Triethoxy(octyl)silane: Not Determined

Fatty alcohol ethoxylated: Not Determined

5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): None expected.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

This product is a non-hazardous waste. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number

Not Applicable

14.2 UN Proper Shipping Name

Not Applicable

14.3 DOT (US)

Not Applicable

14.4 IMDG

Not Applicable

14.5 IATA

Not Applicable

14.6 Trasport Hazard Class(es)

Not Applicable

14.7 Packaging Group, if applicable

Not Applicable

14.8 Environmental Hazards

Not Applicable

14.9 Special Precautions for User

Not Applicable

14.10 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

14.11 Further information

Not Applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations specific to the product in question

15.1.1 Canadian Federal Regulations

15.1.1.1 Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are on the DSL/NDSL.

15.1.2 USA Federal Regulations

15.1.2.1 US OSHA

15.1.2.1.1 Specifically Regulated Substances (29 CFR 1910.1001-1050)

None

15.1.2.2 TSCA

15.1.2.2.1 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720

15.1.2.2.2 Section 12(b) Export Notification (40CR 707, Subpt.D)

None

15.1.2.3 SARA

15.1.2.3.1 304 Emergency Release Notification

Triethoxysilane RQ – 500lbs

15.1.2.3.2 302 Extremely Hazardous Substance

Triethoxysilane RQ – 500lbs

15.1.2.3.3 311/312 Hazardous Chemical

Immediate (acute) health hazard

15.1.2.3.4 313 (TRI Reporting)

None

SECTION 16. OTHER INFORMATION

16.1 Further information

Revision Indicators SDS Prepared by G. Martin; Date of Preparation: April 10, 2025.

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