



E5 Catalyst

Revision Date: 19 March 2019

1) IDENTIFICATION

PRODUCT NAME: E5 Catalyst
IDENTIFICATION NUMBER
PRODUCT USE/CLASS: Densifier/Catalyzing additive for concrete
CAS NUMBER Mixed

Manufacture:

Specification Products
15196 Cumberland Road
Noblesville, IN 46060

Emergency contact: 1-888-881-1726

2) HAZARDS

Classification: Acute Toxicity, Oral, Category 4
Skin corrosion, Category 1B

GHS Label Elements:

Symbol(s):



Signal Word(s): Danger

Hazard statement(s): H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

Precautionary statement(s):

Prevention: P260 Do not breathe vapor or mists
P264 Wash hands and other skin areas exposed to material thoroughly after handling.
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response: P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

E5 Catalyst

P303+P361+P350 IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON center or doctor.

P363 Wash contaminated clothing before reuse.

P321 Specific treatment: Contact a POISON CENTER or doctor. Refer to Section 4 of this SDS.

Storage:

P405 Store locked up

Disposal:

P501 Dispose of contents in accordance with all applicable state, and national regulations.

Other Hazards:

None identified.

3) COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT NAME</u>	<u>CAS NUMBER</u>	<u>Concentration (% by wt)</u>
Glycolic Acid	79-14-1	8-12 %

Other Comments: There are no other ingredients in this product which, within the current knowledge of the supplier and in the concentrations applicable are classified as hazardous and hence required reporting in this section.

4) FIRST AID MEASURES**First aid measures:**

Eye:	Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist.
Skin:	Flush skin with large amounts of water while removing contaminated clothing, and continue rinsing for at least 15 minutes. Wash contaminated clothing before reuse.
Inhalation:	If product vapor or mist causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt or waistband. Seek Medical attention.
Oral:	Rinse mouth with water if the victim is conscious. Remove dentures, if any. Give 2 glasses of water or milk to drink if the victim is conscious, alert and able to swallow. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Obtain medical attention

Most important symptoms/effects:

Eyes: Causes burns to eyes and surrounding tissue. Symptoms may include redness, swelling, pain, tearing, burns, blurred vision, permanent eye damage and possible blindness. Mist or vapor can cause severe eye irritation and eye damage.

E5 Catalyst

Skin: Causes sever skin irritation and burns

Inhalation: Harmful if inhaled. May cause irritation of the nose, throat and respiratory system. Symptoms may include cough, sore throat, pain, headache, shortness of breath and lung inflammation. Material is extremely destructive to the mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed: Causes burns to the lips, mouth, throat and gastrointestinal tract. Causes headache, nausea vomiting abdominal pain, diarrhea, tiredness, incoordination, collapse and unconsciousness. May cause perforation of the esophagus and stomach. May cause severe and permanent damage to the digestive tract.

Chronic: Chronic exposure may result in damage to liver and kidneys. Treat symptomatically and supportively

Notes to physician:

5) FIRE FIGHTING MEASURES

Flammability assessment:	Boils before flashing
Unsuitable extinguishing media:	None known
Specific firefighting measures:	Use water spray to cool containers exposed to flames. If leak or spill has not ignited, use water spray to disperse the vapors.
Specific hazards during firefighting:	Exposure to vapors or mist may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention if exposed
Special protective equipment and Precautions for firefighters:	Do not enter enclosed or confined workspaces without proper protective equipment. Firefighting personnel should wear respiratory protection (positive pressure if available).

6) ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Clean up spill immediately. Wear appropriate protective clothing designated in Section 8. Approach spill from upwind. Remove all sources of ignition. Ventilate the area. Spill creates a slip hazard

Methods and materials for containment and cleaning up:

Cover drains and contain spill. Carefully neutralize spill with lime or soda ash. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect product and place into an approved container for proper disposal. Do not use a metal container for disposal. Dispose of in accordance with all local, state and national regulation as a hazardous waste.

7) HANDLING AND STORAGE**Precautions for safe handling:**

Wear all appropriate personal protective equipment specified in section 8. Do not get in eyes, or on skin or clothing. Do not breathe vapor or mists. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing before reuse. Destroy contaminated shoes.

Conditions for safe storage:

E5 Catalyst

Store above 50°F to avoid having product precipitate out of solutions. Store in original container in a dry, cool, well ventilated area away from incompatible materials (refer to section 10) and food and drink. Keep away from alkalis. Keep away from metals. Keep in original container or transfer only to approved containers having correct labeling. DO NOT store in metal containers. Keep containers tightly closed when not in use. Protect containers from physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Ventilate enclosed areas. Do not take internally. Keep locked up and out of reach of children.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS							
Component	CAS #	OSHA PEL		ACGIH TLV		NIOSH REL	
Product	Mixed	5 mg/m3 Mist TWA		STEL 10 mg/m3 Mist	TWA 5 mg/m3 Mist		FORM Mist

Engineering Controls:

Local Ventilation: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Local exhaust is preferable.

General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling and Spills:

Eyes: Wear chemical splash goggles or safety glasses with unperforated side shields and a face shield during use.

Skin: Wear protective clothing. Wear protective boots if the situation requires

Suitable Gloves: Wear chloroprene gloves or those recommended by glove supplier for the protection against materials in section 3. Breakthrough time of selected gloves must be greater than the intended use period. Gloves should be impermeable to chemicals and oil.

Inhalation/Suitable Respirator: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combinations.

Precautionary Measures: Do not empty into drains.

9) PHYSICAL AND CHEMICAL PROPERTIES

Flash Point:		Boils before flashing
Flammability Limits in Air:	Lower Limit	ND
	Upper Limit	ND
Auto-ignition Temperature:		ND
Decomposition Temperature:		
Flammability:		Not flammable
Appearance:		Colorless Liquid

E5 Catalyst

Odor:	Acidic
Odor Threshold:	ND
pH (Neat @ 25°C):	1-3
Melting/Freezing Point:	< 32°F
Boiling Point:	Approx. 212°F
Evaporation Rate:	ND
Viscosity @ 25°C:	ND
Volatile Organic %:	ND
Vapor Pressure:	ND
Vapor Density (Air=):	ND
Bulk Density @ 25°C:	8.4-8.8
Relative Density @ 25°C:	1.0-1.05
Solubility in Water:	complete
Partition Coefficient (n-octanol/water):	ND

The Physical data presented here are representative values, as the actual product's values may vary slightly.

10) STABILITY AND REACTIVITY

Reactivity:	No special reactivity has been reported
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	Can generate hydrogen gas in contact with metals. Hazardous polymerization will not occur.
Conditions to avoid:	Heat, flames, sources of ignitions and contact with incompatible materials
Incompatible materials:	Strong oxidizing agents, metals
Hazardous decomposition products:	Thermal decomposition product include oxides of carbon.

11) TOXICOLOGICAL INFORMATION**Acute Toxicity:**

Oral:	LD ₅₀ rat: >1950 mg/kg
Dermal:	No data available
Inhalation:	LC ₅₀ rat: >7.1 mg/m ³ . 4 hr.
Skin corrosion/irritation:	Causes sever skin irritation and burns
Serious eye damage/irritation:	Causes burns and eye damage, Risk of blindness.
Respiratory sensitization:	No data available
Skin sensitization:	No data available

E5 Catalyst

Specific Target Organ Toxicity (single exposure): May cause drowsiness or dizziness.

Aspiration hazard: No data available.

Chronic Effects:

Germ cell mutagenicity: No data available.

Carcinogenicity: This product contains no substances present at levels greater than or equal to the 0.1% threshold (de minimis) that are identified as a probable, possible, potential or confirmed carcinogens by ACGIH, IARC, NTP or OSHA.

Reproductive toxicity: No data available.

Specific Target Organ Toxicity (repeated exposure): No data available

12) ECOLOGICAL INFORMATION

Ecotoxicity: LC₅₀ lepomis macrochirus (bluegill) 24-48 hr: >93 mg/l
LC₅₀ Pimephales promelas (flathead minnow) 96 h: >164 mg/l
EC₅₀ Daphnia magna (water flea) 48 h: >141 mg/l
EbC₅₀ Pseudokirchneriella subcapitata (Green algae), 72 h: >22 mg/l

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Not expected

Mobility in soil: No data available

Other adverse effects: Do not allow material to run into surface waters, wastewater or soil
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13) DISPOSAL CONSIDERATIONS

Disposal considerations:

The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislations and any regional local authority requirements. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Empty container warnings:

Empty containers or liners may retain some product residues.

E5 Catalyst**14) TRANSPORT INFORMATION****DOT Road Shipment Information (49 CFR 172.101):**

Proper Shipping Name:	Corrosive Liquid, acidic, organic, NOS (Glycolic Acid)
Hazard Class(es):	8
UN Number:	UN3265
Packing Group:	II
Marine Pollutant:	NO
NAERG	Guide #153

Air Shipment (IATA):

Proper Shipping Name:	Corrosive Liquid, acidic, organic, NOS (Glycolic Acid)
Hazard Class(es):	8
UN Number:	UN3265
Packing Group:	II

Ocean Shipment (IMDG):

Proper Shipping Name:	Corrosive Liquid, acidic, organic, NOS (Glycolic Acid)
Hazard Class(es):	8
UN Number:	UN3265
Packing Group:	II

Special precautions:**15) REGULATORY INFORMATION****International Chemical Inventory Status:**

USA (TSCA):	Listed
DSL	Listed
China	
Canada WHIMS	E- Corrosive

EPA SARA Title III Chemical Listings:**Section 302 Extremely Hazardous Substances:**

Component Name	CAS Number	wt %	Hazard
None			

Section 304 CERCLA Hazardous Substances:

Component Name	CAS Number	wt%	Reportable Quantity (#)
None			

Section 312 Hazard Class:

Acute: ☒ Yes ☐ No

E5 Catalyst

Chronic: ☐ Yes ☒ No
 Fire: ☐ Yes ☒ No
 Pressure: ☐ Yes ☒ No
 Reactivity: ☐ Yes ☒ No

Section 313 Toxic Chemicals: Only chemicals which exceed the reporting threshold are included below:

Component Name	CAS Number	wt%
None		

Other Regulatory Concerns:

State right to know:

Components	CAS Number	CA Prop 65	NJ	PA	MA
None					

16) - OTHER INFORMATION

Revision date: 19 March 2019
 Reason for change: Initial Publication
 Revised by: MTJ
 Reviewed by: MJ
 Approval date: 19 March 2019
 Version: 1.0

	Health	Fire	Reactivity	Special
HMIS:	2	0	0	

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information in the SDS must be considered.

HMIS = Hazardous Material Information System

***Chronic effect**

Disclaimer: This safety data sheet (SDS) was prepared in accordance with the 29 CFR 1910.1200. The information contained herein is based upon data available to us and reflects our best professional judgement. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application, storage, or disposal situation.