# SAFETY DATA SHEET



## 1. Identification

Product identifier	KEM GLO® 5	
Other means of identification		
Product code	004981	
Recommended use	A source of red carotenoids	for use in poultry feed.
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/I	Distributor information	
Manufacturer		
Company name	Kemin Industries, Inc.	
Address	2100 Maury Street	
	Des Moines, Iowa 50317	
	United States	
Telephone	(515) 559-5100	
Website	http://www.kemin.com/	
E-mail	media@kemin.com	
Emergency phone number	CHEMTREC	1-800-424-9300

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Acute toxicity, oral
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	



Signal word	Warning
Hazard statement	Harmful if swallowed.
Precautionary statement	
Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	89.95% of the mixture consists of component(s) of unknown acute dermal toxicity. 87.79% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

Category 4

### 3. Composition/information on ingredients

Mixtures	
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Chemical name	Common name and synonyms	CAS number	%
Calcium Carbonate		471-34-1	50 - < 60
Propylene Glycol		57-55-6	5 - < 10
Ethoxyquin		91-53-2	1 - < 3
Other components below re	portable levels		30 - < 40

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	The product is immiscible with water and will spread on the water surface.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	Form
Calcium Carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.

Components	Туре	Value	Form
		15 mg/m3	Total dust.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
Calcium Carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
US. Workplace Environme	ntal Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Propylene Glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.
logical limit values	No biological exposure limits noted for th	e ingredient(s).	
propriate engineering trols	Good general ventilation should be used applicable, use process enclosures, loca maintain airborne levels below recommen established, maintain airborne levels to a	l exhaust ventilation, or oth nded exposure limits. If ex	er engineering controls to
ividual protection measures			
	s, such as personal protective equipment		
Eye/face protection	Face shield is recommended. Wear safe		s (or goggles).
Eye/face protection Skin protection Hand protection		ty glasses with side shields	s (or goggles).
Skin protection	Face shield is recommended. Wear safe	ty glasses with side shields ves.	s (or goggles).
Skin protection Hand protection	Face shield is recommended. Wear safe	ty glasses with side shields ves. hing.	
Skin protection Hand protection Other	Face shield is recommended. Wear safe Wear appropriate chemical resistant glov Wear appropriate chemical resistant clot	ty glasses with side shields /es. hing. uitable respiratory equipme	

### 9. Physical and chemical properties

Appearance Solid. **Physical state** Solid. Form Color Orange red Odor Paprika Odor threshold Not available. Not available. pН Not available. Melting point/freezing point Initial boiling point and boiling Not available. range Not available. Flash point **Evaporation rate** Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower Not available. (%) Flammability limit - upper Not available. (%) Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Vapor pressure Vapor density

**Relative density** 

0.01 hPa estimated

Not available.

Not available.

Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	31 - 38 lb/ft <sup>3</sup>

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Acids. Fluorine.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

mormation on likely routes of	exposure		
Inhalation	Prolonged inhalation may be har	mful.	
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Coughing.		
Information on toxicological ef	fects		
Acute toxicity	Harmful if swallowed.		
Components	Species	Test Results	
Calcium Carbonate (CAS 471-34	-1)		
Acute			
Oral			
LD50	Rat	6450 mg/kg	
Propylene Glycol (CAS 57-55-6)			
<u>Acute</u>			
Oral			
LD50	Rat	30 g/kg	
Skin corrosion/irritation	Prolonged skin contact may caus	e temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cau	se temporary irritation.	
Respiratory or skin sensitizatio	on		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogeni	city to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
	ed Substances (29 CFR 1910.1001	-1052)	
Not regulated.			
Material name: KEM GLO® 5			SDS

US. National Toxicology Program	(NTP) Report on Carcinogens
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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

### 12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
KEM GLO® 5			
Aquatic			
Fish	LC50	Fish	3553.8235 mg/l, 96 hours estimated
Components		Species	Test Results
Calcium Carbonate (CAS 47	1-34-1)		
Aquatic			
Fish	LC50	Western mosquitofish (G	ambusia affinis) > 56000 mg/l, 96 hours
rsistence and degradability	No data is	available on the degradability	of any ingredients in the mixture.
accumulative potential			
bility in soil	No data available.		
ner adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

	Toxic Substances Control A	Act (TSCA)	
	TSCA Section 12(b) Ex		
	Not regulated.		
	CERCLA Hazardous Substa		
	Not listed.		
	SARA 304 Emergency relea		
	Not regulated.		
	OSHA Specifically Regulate		
	Not regulated.		
	Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
	SARA 302 Extremely hazar	dous substance	
	Not listed.		
	SARA 311/312 Hazardous chemical	Yes	
	Classified hazard categories	Acute toxicity (any route of exposure)	
	SARA 313 (TRI reporting) Not regulated.		
	Other federal regulations		
	Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollutants (HAPs) List	
	Not regulated.		
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)			
	Not regulated.		
	Safe Drinking Water Act (SDWA)	Not regulated.	
	US state regulations		
	California Proposition 65		
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.			
	International Inventories		
	Country(s) or region	Inventory name	On inventory (yes/no)*
	Austrolia	Australian Inventory of Chamical Substances (AICS)	Na

Country(s) or region	Inventory name On inventory	/ (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
*A "Vaa" indicates that all some	nente of this product comply with the inventory requirements administered by the governing country (o	<b>`</b>

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	11-10-2017
Revision date	10-15-2020
Version #	05

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.