

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

CAS Number: 1338-41-6
Product Name: Alkest SP 60 K
Revision Date: May 20, 2021 **Date Printed:** Jun 01, 2021
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Thames River Chemical Corp.
Address: 5230 Harvester Road Burlington, ON, CA, L7L 4X4
Emergency Phone: CHEMTREC (800) 424-9300
Information Phone Number: 905-681-5353
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Product/Recommended Uses: For laboratory or industrial use only.

SECTION 2) HAZARDS IDENTIFICATION**Classification**

Not a hazardous substance or mixture according to GHS (Globally Harmonized System).

Acute toxicity of 100% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0001338-41-6	Sorbitan, monoctadecanoate	100%

SECTION 4) FIRST-AID MEASURES**Inhalation**

Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration.
Get medical advice/attention.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

Skin Contact

Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek prompt medical attention.

Ingestion

Seek prompt medical attention. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.

Most Important Symptoms and Effects, Both Acute and Delayed

Ingestion - No acute toxic effects are known due to the ingestion of this product. Inhalation - Due to your low vapor pressure, is unlikely to cause inhalation problems at room temperature. Vapors from the liquid at high temperatures or mist of the product, in high concentrations, may cause irritation of the respiratory system. Skin - It is less probable that exposure to small amounts, for short periods can cause any toxic effect. Repeated and prolonged contact may cause irritation. Eyes - May cause slight irritation.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Information for doctor: There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

SECTION 5) FIRE-FIGHTING MEASURES**5.2 Specific Hazards in Case of Fire**

Product is not flammable. Dust can become combustible at high concentrations. In case of combustion it may generate carbon monoxide, besides CO₂.

5.1 Extinguishing media

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

5.3 Advice for firefighters

Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

SECTION 6) ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.

6.2 Environmental Precautions

Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

6.3 Methods and Materials for Containment and Cleaning up

Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

SECTION 7) HANDLING AND STORAGE**General**

Packaging Material: Stainless steel, Polyethylene, Polypropylene.

7.1 Precautions for safe handling

Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If occurs accidental contact, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage: Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use. The product can be stored in tanks, in the liquid state, at temperatures between 55 and 60 °C.

Incompatibilities: Avoid contact with: Strong oxidizing agents. Nitrates.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**Eye protection**

Wear safety glasses with side shields

Skin Protection

Skin Protection PVC apron. It is recommended to adopt safety boots/shoes.
 Hand Protection Gloves made of: Rubber. PVC (Polyvinyl chloride).

Respiratory Protection

In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. It is recommended to wear a face mask with mechanical filter in case of exposure to the particulate material.

Appropriate Engineering Controls

In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhaust).

Chemical Name	CANsmg	CANsppm	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis
No applicable chemical	-	-	-	-	-	-	-	-

Chemical Name	ACGIH Carcinogen	ACGIH Notations
No applicable chemical	-	-

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	8.35 lb/gal
Specific Gravity	1.00
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Flakes and/or granular powder	N/A
Odor Description	N/A
Odor Threshold	N/A
pH	N/A
Melting/Freezing Point	53 °C
Low Boiling Point	N/A
High Boiling Point	N/A
Flash Point	>175 °C
Vapor Pressure	N/A
Vapor Density	N/A
Evaporation Rate	N/A
Upper Explosion Level	N/A
Lower Explosion Level	N/A
Water Solubility	Insoluble in water
Coefficient Water/Oil	N/A
Viscosity	N/A

SECTION 10) STABILITY AND REACTIVITY**Reactivity**

No hazardous reactivity is expected.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Stability

Stable under normal storage and handling conditions.

Conditions to Avoid

Avoid high temperatures and contact with sources of ignition. Avoid exposing product to air.

Incompatible Materials

Avoid contact with: Strong oxidizing agents. Nitrates.

Hazardous Decomposition Products

During combustion carbon monoxide and carbon dioxide may be formed.

SECTION 11) TOXICOLOGICAL INFORMATION**Acute Toxicity**

Oral LD50, rat: > 15.9 g/kg.

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

This product is not listed as a carcinogen

Germ Cell Mutagenicity

No adequate gene mutation studies were available; however, an in vitro test with hamster lung cells, chromosomal aberrations occurred at all concentrations (ca. 0, 1100, 2200 or 4300 µg/mL) in the presence of metabolic activation. Not mutagenic to Salmonella typhimurium, with or without metabolic activation. Not induce in vitro transformation of hamster embryo cells at concentrations ranging from 1 to 300 µg/mL.

Reproductive Toxicity

Effects on the newborn have been reported from the repeated or prolonged ingestion in rats. TDLo, rat: 635 g/kg (Multigeneration). TDLo, rat: 1270 g/kg (prior to copulation 84-day, 21-day, continuous).LOAEL, Wistar rat: 10.000 mg/kg/day .NOAEL, Wistar rat: 5.000 mg/kg/dia .

Respiratory/Skin Sensitization

Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation

Slightly to moderately irritating. (800 µg, rabbit).

Specific Target Organ Toxicity - Repeated Exposure

NOAEL, rat: 2600 mg/kg/day . LOAEL, mouse: 5200 mg/kg/day .

Specific Target Organ Toxicity - Single Exposure

No data available.

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Fish - LC50, 96h, Orizas latipes: > 1000 mg/L. Invertebrate - EC50, 48h, Daphnia magna: > 1000 mg/L. Algae - EC50, 72h, Pseudokirchnerella subcapitata: > 1000 mg/L.

Persistence and degradability

This product is biodegradable

Mobility in Soil

Volatilization is considered low based on the estimated Henry's Law constants < 1.0×10E-10 atm.m³/mole. It is expected to have high mobility in soil.

Bioaccumulative Potential

This material is not expected to bioaccumulate.

Persistence and Degradability

(75 - 80% of its theoretical BOD over a 28-day period using the modified MITI test - OECD 301C). Readily biodegradable.

Other Adverse Effects

Water hazard class 1 (Self-assessment): slightly hazardous for water.
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13) DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste management should be in full compliance with federal, state and local laws.

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

SECTION 14) TRANSPORT INFORMATION

	Transport Canada Information	U.S. DOT Information
UN number:	Not Regulated	Not Regulated
Proper shipping name:	N/A	N/A
Hazard class:	Not Applicable	Not Applicable
Packaging group:	Not Applicable	Not Applicable
Hazardous substance (RQ):		No Data Available
Marine Pollutant:	No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available
Toxic-Inhalation Hazard:		No Data Available

Transport in bulk (according to Annex II of MARPOL 73/78):	No Data Available	
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SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0001338-41-6	Sorbitan, monooctadecanoate	100%	DSL,TSCA,EU_EC_Inventory - European_EC_Inventory

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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