# Safety Data Sheet LOK 2242



1. Identification	
Product identifier	LOK 2242
Product code	RALOK224250ML; RALOK2422250ML; RALOK22424LT
Other means of identification	Medium strength Threadlocker.
Recommended use of the chemical and restrictions on use	Anaerobic resins and cyanoacrylate glues.
Manufacturer	AEROCHEM Inc. 5977 Trans Canada Highway Pointe-Claire, QC H9R 1C1 Canada  General Information: 1-888-592-5837  www.aerochem.ca info@aerochem.ca
Emergency phone number	INFOTRAC®: 1-800-535-5053 International call collect: 1-352-323-3500 24 hours/day, 7 days/week

## 2. Hazard identification

Summary

Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

#### WHMIS 2015/GHS/OSHA HCS 2012





Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2)

Skin sensitizer (Category 1)

Carcinogenicity (Category 2)

#### WARNING

H319: Causes serious eye irritation

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H351: Suspected of causing cancer

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing vapours and dust.

P264: Wash skin thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves, protective clothing and eye protection.

P308+313: IF exposed or concerned: Get medical attention.

P302+352: IF ON SKIN: Wash with plenty of water and soap.

P333+313: If skin irritation or a rash occurs: Get medical advice or attention.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice or attention.

P362+364: Take off contaminated clothing and wash before reuse.

P405: Store locked up.

P501: Dispose of contents and container in accordance with local regulations.

3. Composition/information on ingredients				
Common name	CAS	Weight % content		
Polyglycol dimethacrylate	Proprietary 25	65 - 85 %		
Polyglycol oleate	Proprietary 26	10 - 30 %		
Saccharin	81-07-2	1 - 5 %		
Synthetic Amorphous Fumed Silica	112945-52-5	1 - 5 %		
Cumene hydroperoxide	80-15-9	1 - 5 %		
Propylene glycol	57-55-6	1 - 5 %		
Cumene	98-82-8	0.1 - 1 %		

**Note:** Polyglycol dimethacrylate (Proprietary 25) and Polyglycol oleate (Proprietary 26) are Trade Secret from Henkel Corporation. No registration number and registration date have been provided in the original SDS mentioning these proprietary ingredients. Moreover, no acute toxicity data have been provided. The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

4. First-aid	measures
Inhalation	Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.
Skin contact	Flush with water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Avoid touching eyes with contaminated body parts. If a problem develops or persists, seek medical attention.
Eye contact	IMMEDIATELY flush with plenty of water. Remove contact lenses if easy to do. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. Seek medical attention or contact a Poison Centre immediately.
Other	No information available.
Symptoms	May cause redness and irritation of the skin and to eyes. May cause an allergic reaction of the skin.
Notes to the physician	Apply a symptomatic and supportive treatment. If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting measures				
Suitable extinguishing media	Dried powder, water fog, water spray, chemical foam, carbon dioxide (CO2), ABC fire extinguishing.			
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.			
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.			

<b>Special protective</b>
actions for
fire-fighters

Use water spray to cool fire-exposed containers. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures				
Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.			
Environmental precautions	Prevent entry into sewers, closed areas and release to the environment. For a large spill, consult the Department of Environment or the relevant authorities.			
Methods and materials for containment and cleaning up	Ventilate the area well. Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal container clearly identified. Finish cleaning by rinsing with water contaminated surface. Dispose via a licensed waste disposal contractor.			

7. Handling and	storage
Precautions for safe handling	Use in well ventilated area. Do not breathe vapours, mists or aerosols. Avoid contact with skin, eyes and clothing. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound and before eating, drinking or using toiletries. Remove contaminated clothing and wash before reuse.
Conditions for safe storage, including any incompatibilities	Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place.  Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  Store away from incompatible materials (see section 10). Keep away from frost and extreme temperature variations.
Storage temperature	0 to 32°C (32 to 89.6°F)

8. Exposure con	ntrols/personal pr	otection			
Immediately Dangerous to Life or Health	Synthetic Amorphous Fumed Silica: 3000 mg/m3. Cumene: 900 ppm.				
Propylene glycol	TWA (8h)	Aerosol	F0	10 mg/m <sup>3</sup>	ON , US AIHA
Synthetic Amorphous Fu	umed Silica TWA (8h)	Respirable Dust Respirable Dust Total Dust Respirable Dust Total Dust	50 ppm	155 mg/m <sup>3</sup> 1.5 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> 4 mg/m <sup>3</sup> 6 mg/m <sup>3</sup>	ON BC ACGIH , ON BC RSST ACGIH , ON
Cumene hydroperoxide Cumene	TWA (8h) STEL TWA (8h)		1 ppm 75 ppm 25 ppm 50 ppm 50 ppm	246 mg/m³	US AIHA BC BC ACGIH , ON RSST
Appropriate engineering controls	Provide sufficient mechan concentrations of vapours limits.	, •		, .	

Individual protection	on measures
Eye	Wear safety glasses with side shields. If there is a risk of contact with eyes, wear chemical splash goggles.
Hands	Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs o wear.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. If necessary, wear an apron or long-sleeve protective coverall suit.
Respiratory	Respiratory protection is not required for normal use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit, wear a half mask respirator with appropriate cartridges fitted with P100 filters.
Feet	Wear rubber boots to clean up a spill.



9. Physical and	chemical properties		
Physical state	Liquid	Flammability	Non-flammable
Colour	Blue	Flammability limits	2.6 to 12.5%
Odour	Slight odor	Flash point	>93.3°C (199.9°F) Tagliabue closed cup
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.
pH	N/Av.	Sensibility to electrostatic charges	N.Av.
Melting point	N/Av.	Sensibility to sparks and/or friction	No
Freezing point	N/Av.	Vapour density	N/Av. (Air = 1)
Boiling point	>149°C (300.2°F)	Relative density	1.1 kg/L (Water = 1)
Solubility	Slightly soluble in water.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	N/Av.	Decomposition temperature	N/Av.
Vapour pressure	<0.667kPa (5 mm Hg) @ 27°C (80.6°F)	Viscosity	N/Av.
Percent Volatile	N/Av.	Molecular mass	N/Ap.
N/Av.: N	Not Available N/Ap.: Not Applicable	Und.: Undetermined	N/E: Not Established

10. Stability and reactivity			
Reactivity	No information available for this product.		
Chemical stability	Stable under recommended storage conditions.		
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.		
Conditions to avoid	Avoid contact with incompatible materials. Avoid high temperatures and intense heat.		
Incompatible materials	Strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates), strong reducing agents (e.g. potassium, sodium, lithium, metal hydrides), strong bases (e.g. hydroxides, solutions of ammonia, amines, carbonates).		
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

Numerical	Polyglycol dimethacry	/late	Ingestion	>2000 mg/kg	Rat	LD50
measures of	Polyglycol oleate		Ingestion	>2000 mg/kg	Rat	LD50
toxicity	Propylene glycol		Ingestion	18000 mg/kg	Rat	LD50
			Inhalation	>20 mg/l/4h	Rat	LC50
			Skin	20800 mg/kg	Rabbit	LD50
	Cumene hydroperoxi	de	_	382 mg/kg	Rat	LD50
				1.4 mg/l/4h	Rat	LC50
			Skin	500 mg/kg	Rat	LD50
	Saccharin		_	17000 mg/kg		
			Skin	4694 mg/kg	Rabbit	
	Synthetic Amorphous	Fumed Silica	_			LD50
				>2.08 mg/l/4h		LC50
			Skin	>5000 mg/kg		
	Cumene		_	2260 mg/kg	Rat	LD50
				39 mg/l/4h	Rat	LC50
			Skin	10578 mg/kg	Rabbil	LD50
Likely routes of exposure	Skin, eyes, inhalation	, ingestion.				
Delayed, immediate and chronic effects	Eye contact  Skin contact	80-15-9) caus with dilute 10% Irritation/Corro of this mixture May cause red no 80-15-9) ca 10% solution (OECD 404):	ed severe % solutions osion, Rable gave not idness and aused sever of cumene tests performance.	eye irritation a is is likely to cau bit (OECD TG irritating to slig irritation of the ere skin irritation hydroperoxide ormed with the	nd cornuse son 405): te htly irrite skin. Unn and ce is irrite	iluted cumene hydroperoxide (CAS no neal damage in rabbits (IUCLID). Containe pain and irritation. Eye ests performed with the other ingredient ating results.  Undiluted cumene hydroperoxide (CAS damages in rabbits (IUCLID). Dilued ating. Skin Irritation/Corrosion, Rabbit ngredients of this mixture gave not
	lasta at atta a	irritating to slig		•		
	Inhalation	_				respiratory tract irritation.
	Ingestion	and vomiting.	cause abo	iominai pain, n	ausea,	cramps, headache, dizziness, diarrhea
			allorgio ro	action of the s	kin. Cui	mene hydroperoxide (CAS no 80-15-9)
	Respiratory or skin sensitization	is known to ha	ave a skin s	sensitizing pote	ential in	human (TONEX). The Trade Secret
		is known to ha	ave a skin s nethacrylat	sensitizing pote e is considered	ential in	

	<ul> <li>IARC: 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.         NTP: K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.     </li> <li>Carcinogenicity         Contains a substance that can cause cancer based on animal data. The risk of cancer depends on duration and level of exposure.         Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.         Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.</li> </ul>
	Specific target No target organ is listed. organ toxicity - single exposure Specific target No target organ is listed. organ toxicity - repeated exposure
Interactive effects	No information available.
Other information	The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. This value is not classified according to GHS. These values are not classified according to WHM 2015 and OSHA HCS 2012.

12. Ecologic	eal information						
Ecological toxicity	Fish - Pimephales promelas - Fresh water Aquatic Invertebrate - Daphnia Magna, Water flea, fresh water Aquatic Plant - Algea, Selenastrum capricornutum Fish - Oncorhynchus mykiss - Rainbow trout Aquatic Invertebrate - Daphnia Magna, Water flea (immobilization) Aquatic Plant - Algea, Scenedesmus subspicatus	EC50 EC50 LC50 EC50	46500 mg/L; 96 h (CAS no 57-55-6) 43500 mg/L; 48 h (CAS no 57-55-6) 1900 mg/L; 96 h (CAS no 57-55-6) 3.9 mg/L; 96 h (CAS no 80-15-9) OECD 203 18.8 mg/L; 48 h (CAS no 80-15-9) OECD 202 3.1 mg/L; 72 h (CAS no 80-15-9) OECD 201				
Persistence	Contains an or many ingredients that may be persistent in aquatic environment.						
Degradability	No information available for this product. Propylene glycol (CAS no 57-55-6) is readily biodegradable (96% in 28 days) OECD Guideline 301D. Cumene hydroperoxide (CAS no 80-15-9) is not readily biodegradable, 2% to 7% after 28 days (OECD 301B).						
Bioaccumulative potential	No information available for this product. Bioconcentration Factor (BCF) <1 indicating a low potential to bioaccumulate (Propylene Glycol). Propylene has a Bioconcentration Factor (BCF) value of 5, and its Log Kow value is 1.77, indicating its potential to bioaccumulate is low.						
Mobility in soil	No information available for this product. Propylene Glycol (CAS no 57-55-6) will be distributed to air (3%), water (48.8%), soil (48.8%), and sediment (0.07%). Based on the high solubility in water, a high mobility in soil is to be expected. Cumene hydroperoxide (CAS no 80-15-9) has no bioaccumulation potential (BCF value of 9).						
Other adverse effects	This chemical does not deplete the ozone layer.						

## 13. Disposal considerations



Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport in	formation
UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	This material does not contain marine pollutant.
Special precautions for user	No additional information.
TDG - Transportation o	f Dangerous Goods (Canada)
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Emergency response guidebook 2016	
IMO/IMDG - Internation	al Maritime Transport
Classification	Not regulated
IATA - International Air	Tran <mark>sport Association</mark>
Classification	Not regulated
	are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper skaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

# 15. Regulatory information

### **CANADA**

Common name	CAS	CEPA	DSL	NDSL	NPRI
Polyglycol dimethacrylate	Proprietary 25		X		
Polyglycol oleate	Proprietary 26		X		
Saccharin	81-07-2		X		
Synthetic Amorphous Fumed Silica	112945-52-5		X		
Cumene hydroperoxide	80-15-9		X		Х
Propylene glycol	57-55-6		X		
Cumene	98-82-8	X	Х		Х

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

### **UNITED STATE OF AMERICA**

Common name	CAS	TSCA	CER	<b>EPCRA</b>	<b>EPCRA</b>	CAA	CAA	CAA	CWA	CWA
			CLA	313	302/304	112(b)	112(b)	112(r)	311	Prio.

					HON	HAP		
Polyglycol dimethacrylate	Proprietary 25	X						
Polyglycol oleate	Proprietary 26	X						
Saccharin	81-07-2	Χ	Χ	Χ				
Synthetic Amorphous Fumed Silica	112945-52-5	Х						
Cumene hydroperoxide	80-15-9	Χ	Χ	Χ	Х			
Propylene glycol	57-55-6	Χ			Х			
Cumene	98-82-8	Χ	X	X	X	Χ		

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act List of Hazardous Substances
- CWA Priority: Clean Water Act Priority Pollutant list

### **California Proposition 65**

Common name	CAS	Cancer	Reproductive and Developmental Toxicity
Cumene	98-82-8	X	
Other regulations			
	HMIS  Heath	NFPA	
	Flamability Reactivity		
	Protective Equipment		

16. Other in	formation
Date (YYYY-MM-DD)	AEROCHEM Inc. 2020-03-03
Version	03
Other information	REFERENCES: - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/ - TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, http://toxnet.nlm.nih.gov/ - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), http://www.reptox.csst.qc.ca - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov/ - Toxicological Review, Integrated Risk Information System (IRIS), USA Environment Protection Agency, www.epa.gov/iris DATE OF FIRST VERSION OF SDS: 2017-01-11. CHANGES MADE IN THE VERSION 02: section 3. DATE OF SECOND VERSION OF SDS: 2019-07-31. CHANGES MADE IN THE VERSION 03: section 1.

ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System To the best of our knowledge, the information contained herein is accurate. However, neither Prī¿/ventis System nor any of its subsidiaries assumes any Powered by liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. reventis A global vision of prevention

