# Safety Data Sheet CS-40



1. Identification	
Product identifier	CS-40
Product code	GRCS40400G60CS, GRCS4017KG, GRCS4055KG, GRCS40180KG
Other means of identification	CS-40, liquid grease format. This SDS sheet is not for the product in aerosol format.
Recommended use of the chemical and restrictions on use	Multipurpose grease, anti-seize, low temperature.
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 ingest. If medical advice is needed, have this SDS or label at hand. 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



Serious eye damage/eye irritation (Category 2) Skin sensitizer (Category 1)

#### WARNING

H319: Causes serious eye irritation

H317: May cause an allergic skin reaction

H316: Causes mild skin irritation

P261: Avoid breathing vapours, mist and spray.

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.

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.

P501: Dispose of contents and container to an approved waste disposal plant.

#### Other hazards which do not result in classification

3. Composition/information on ingredients			
Common name	CAS	Weight % content	
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	45 - 70 %	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10 - 30 %	
Calcium carbonate	471-34-1	5 - 10 %	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	1 - 5 %	
Calcium dodecylbenzenesulfonate	26264-06-2	1 - 5 %	
Sulfonic acids, petroleum, calcium salts	61789-86-4	1 - 5 %	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	1 - 5 %	
Note: 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. If victim is conscious wash out mouth with plenty of water. 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 to eyes. May cause dry skin, itching and irritation. 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	Dry chemicals, water spray, chemical foam, carbon dioxide (CO2). Do not use a heavy water jet.	
Specific hazards arising from the chemical	Non-flammable. May be combustible at high temperature. Emits toxic and irritating fumes under fire conditions.	
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.	
Special protective actions for fire-fighters	Use water spray to cool fire-exposed containers. Water spray can reduce the intensity of the flames. However, the water jets can spread the fire. Product floating on water can travel to an ignition source and spread the fire. 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	rotective equipment of the state of the stat	
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. Remove sources of ignition. Stop leak, if it's possible to do so without risk. 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 the contaminated surface by rinsing with soapy water. 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. Avoid contamination with another chemical product. Keep containers tightly closed when not in use. Keep away from heat and open flame. 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 oxidizing materials and incompatible materials (see section 10). Keep away from direct sunlight and heat.
Storage temperature	0 to 50°C (32 to 122°F)

8. Exposure controls/personal protection					
Immediately Dangerous to Life or Health	No IDLH value is reported.				
	olvent-refined heavy paraffinic olvent-dewaxed heavy paraffinic	TWA (8h) STEL TWA (8h) STEL TWA (8h)	Respirable Dust	5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 20 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	ACGIH , OSHA, RSST ON , RSST ACGIH , ON, RSST BC ACGIH , RSST
Appropriate engineering controls	Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.				
Individual protection m	easures				
Eye	If there is a risk of contact with e	yes, wear c	hemical splash go	ggles.	
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 of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.				
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. Wear synthetic or a neoprene apron, if necessary, to prevent repeated or prolonged contact				

	with skin.	
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 organic vapour cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with organic vapour cartridges and P100 filters.	
Feet	Wear rubber boots to clean up a spill.	
TM/MD		



9. Physical an	d chemical properties		
Physical state	Grease (Liquid)	Flammability	Non-flammable
Colour	Tan	Flammability limits	N/Av.
Odour	Slightly, mineral-oil-like	Flash point	>180°C (356°F)
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.
рН	N/Ap.	Sensibility to electrostatic charges	No
Melting point	N/Av.	Sensibility to sparks and/or friction	No
Freezing point	N/Av.	Vapour density	N/Av. (Air = 1)
Boiling point	N/Av.	Relative density	1.2 kg/L (Water = 1)
Solubility	Insoluble in water.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	< Butyl Acetate	Decomposition temperature	N/Av.
Vapour pressure	N/Av.	Viscosity	112 cSt @ 40°C (104°F)
Percent Volatile	N/Av.	Molecular mass	N/Ap.
N/Av	.: Not Available N/Ap.: Not Application	able 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.	
Incompatible materials	Strong bases, strong acids, strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and	

	perchlorates).
-	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicolo	gical informati	ion		
Numerical measures of toxicity	Distillates (petroleum	), solvent-refined heavy paraffinic	Ingestion >5000 mg/kg Rat LD50 Inhalation >5 mg/l/4h Rat LC50 Skin >5000 mg/kg Rabbit LD50	
·	Distillates (petroleum	), solvent-dewaxed heavy paraffinic	Ingestion >5000 mg/kg Rat LD50 Inhalation >5 mg/l/4h Rat LC50 Skin >5000 mg/kg Rabbit LD50	
	Calcium carbonate		Ingestion 6450 mg/kg Rat LD50 Inhalation >3 mg/l/4h Rat LC50 Skin >2000 mg/kg Rat LD50	
	Benzenesulfonic acid	, C10-16-alkyl derivs., calcium salts	Ingestion >16000 mg/kg Rat LD50 Inhalation >1.9 mg/kg Rat LC50 Skin >5000 mg/kg Rabbit LD50	
	Benzenesulfonic acid	, mono-C16-24-alkyl derivs., calcium salts	Ingestion >5000 mg/kg Rat LD50 Skin >2000 mg/kg Rabbit LD50	
	Sulfonic acids, petrol	eum, calcium salts	Ingestion >5000 mg/kg Rat LD50 Inhalation >1.9 mg/kg Rat LC50	
	Calcium dodecylbenz	renesulfonate	Skin >5000 mg/kg Rabbit LD50 Ingestion 1300 mg/kg Rat LD50 Skin >2000 mg/kg Rabbit LD50	
Likely routes of exposure	Skin, eyes, inhalation	, ingestion.		
Delayed, immediate and chronic effects	Eye contact	May cause redness and irritation to eyes. dodecylbenzenesulfonate (CAS no 26264-Benzenesulfonic acid, mono-C16-24-alkyl is irritating. Sulfonic acids, petroleum, calcirritating.	06-2) is severely irritating (OEDC 405). derivs., calcium salts (CAS no 70024-69-0)	
	Skin contact	May cause redness and slight irritation of the skin. Skin Irritation, Rabbit: Calcium dodecylbenzenesulfonate (CAS no 26264-06-2) is moderately irritating. Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (CAS no 70024-69-0) is irritating. Sulfonic acids, petroleum, calcium salts (CAS no 61789-86-4) are		
	Inhalation	irritating.  Generally speaking, working cleanly and for greatly minimize the potential for harmful econditions.	ollowing basic precautionary measures will exposure to this product under normal use	
	Ingestion	Low degree of acute toxicity. May cause g vomiting.	astrointestinal irritation with nausea and	
	Respiratory or skin sensitization  Benzenesulfonic acid, alkyl derivatives, and sulfonic acids, petroleum are skin sensitizers based on the Beuhler test (guinea pig, OECD Guideline 406). Sulfonic acids, petroleum, calcium salts (CAS no 61789-86-4) have shown equivocal resul human skin sensitization patch test studies. This product is not a respiratory sensitizer.			
	IARC/NTP No ingredients listed. Classification			
	Carcinogenicity	Ingredients present at levels greater than a listed as a carcinogen by IARC, ACGIH, N	IOSH, NTP or OSHA.	
	Mutagenicity	Ingredients in this product present at level: known to cause mutagenic effects.	·	
	Reproductive toxicity	Ingredients in this product present at level known to cause reproduction effects.	s greater tnan or equal to 0.1% are not	

	Specific target organ is listed. organ toxicity - single exposure Specific 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 (aerosol/mist) of the mixture was calculated to be greater than 5 mg/L/4h. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.

12. Ecologic	eal information
Ecological toxicity	Fish - Pimephales promelas [static]       LC50 >100 mg/L; 96h (CAS no 64741-88-4)         Fish - Oncorhynchus mykiss - Rainbow trout       LC50 >100 mg/L; 96h (CAS no 61789-86-4)         Fish, various       LC50 >100 mg/L; 96h (CAS no 70024-69-0)         Fish, various       LC50 20 mg/L; 96h (CAS no 26264-06-2)         Aquatic Invertebrate - Daphnia magna       EC50 2.2 mg/L; 48h (CAS no 26264-06-2)
Persistence	Contains an or many ingredients that may be persistent in aquatic environment.
Degradability	Lubricant base oil attained between 2 to 4% degradation within 28 days and therefore, cannot be considered as ready biodegradable under the conditions of OECD Guideline 301B. The ingredients of calcium alkyl sulphonates salts are not readily biodegradable (<10% in 28 days). Calcium dodecylbenzenesulfonate (CAS no 26264-06-2) should be biodegradable (>70% in 28 days).
Bioaccumulative potential	Lubricant base oil has Log Kow values ranging from about 5 to 25 and Bioconcentration Factor (BCF) between 0.9 and 750000 for the oil mixture. These values indicate a high degree of bioaccumulation. The potential of calcium alkyl sulfonates salts to bioaccumulate is low. Log Kow >6 and Potential for bioconcentration (BCF) of 71 (estimated) for Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (CAS no 70024-69-0). Potential for bioconcentration (BCF) of 71 (estimated) for Sulfonic acids, petroleum, calcium salts (CAS no 61789-86-4). Log Kow of 6.7 (estimated) for Calcium dodecylbenzenesulfonate (CAS no 26264-06-2).
Mobility in soil	This product is stable in water, and can be mechanically separated from water. Lubricant base oil is likely to have high Koc values (>5000), indicating a high degree of sorption to the organic matter in soils. This value suggests that some components will display low mobility and some will be essentially immobile in soil.
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. Non-use oils or waste oils can be reprocessed (recycle) where there is a recovery program. 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 information								
UN Number	UN							
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	IMO/IMDG - International Maritime Transport							
Classification	Not regulated							
IATA - International Air	Transport Association							
Classification	Not regulated							

# 15. Regulatory information

### **CANADA**

Common name	CAS	CEPA	DSL	NDSL NPRI
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4		X	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0		Х	
Calcium carbonate	471-34-1		X	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6		Х	
Calcium dodecylbenzenesulfonate	26264-06-2		X	
Sulfonic acids, petroleum, calcium salts	61789-86-4		X	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0		X	

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper

transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

- 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**

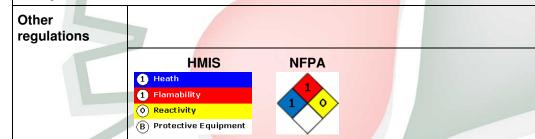
Common name	CAS	11 C ( . V	EPCRA 313	EPCRA 302/304	112(b)	CAA 112(b) HAP		CWA Prio.
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Х						

Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Х						
Calcium carbonate	471-34-1	Χ						
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	X						
I laoaecylbenzenesultonate	26264-06-2		Х				Х	
Sulfonic acids, petroleum, calcium salts	61789-86-4	Х						
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	X				TN	<b>1/</b>   <b>V</b>	ID

- 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**

No ingredients listed.



16. Other information						
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/ - 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 - NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, http://www.cdc.gov/niosh/npg/npg.html - Database, Institut National de Recherche et de Sécurité, http://www.inrs.fr/accueil/produits/bdd.html DATE OF FIRST VERSION OF SDS: 2016-01-29. CHANGES MADE IN THE VERSION 02: sections 2 and 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

TM/MD

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