



MATERIAL SAFETY DATA SHEET

SE-100

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME SE-100

Product number CST0405000, CST1405000, CST2405000, CST3406000, CST9406000

SYNONYMS MC 2000MVBG GRADE 0, MC 2000MVBG GRADE 1, MC 2000MVBG GRADE 2, MC 2000MVBG GRADE 2.5, MC 2000MVBG GRADE 3

PRODUCT USE Industrial Lubricant

MANUFACTURER
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2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)	Mixture**(2)	60-80 wt%
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	Proprietary	20-40 wt%
*BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	26264-06-2	1-3 wt%

* This chemical(s) is hazardous according to OSHA/WHMIS criteria

COMPOSITION COMMENTS

The identity of chemical ingredients not regulated by U.S. or Canadian Federal or Regional Regulations (e.g. regulations such as OSHA HCS, EPA (TSCA, CAA and RCRA), HC WHMIS and EC CEPA) are treated confidentially and are not disclosed above.

** (2) The base oil for this product can be a mixture of any of the following highly refined petroleum streams:

CAS 64741-88-4; CAS 64741-89-5; CAS 64741-95-3; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS

64742-63-8; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1. Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and hydrotreating to remove aromatics and improve performance characteristics. All petroleum base oils contained in this product meet the IP 346 criteria of less than 3 percent DMSO extractable PAH's and are not considered carcinogens by IARC, NTP or OSHA.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HEALTH HAZARDS, GENERAL	Exposure to vapors generated at high temperatures may cause respiratory irritation. Spray mist can irritate airways and lungs.
INHALATION	High concentrations of mists or aerosols may cause irritation to the respiratory tract.
INGESTION	May cause discomfort if swallowed. May cause stomach pain or vomiting.
SKIN	Repeated and/or prolonged skin contact may cause irritation.
EYES	May cause mild eye irritation.
SENSITIZATION	Not known to be a sensitizer.
CARCINOGENICITY	No components listed by IARC, NTP, OSHA, NIOSH, US EPA, ACGIH, ECHA or Health Canada as a carcinogen are present at 0.1% or more.
MUTAGENICITY	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
HEALTH WARNINGS	INHALATION. Spray mist can irritate airways and lungs. SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. May cause slight eye irritation. INGESTION. Can cause stomach ache and vomiting.
TARGET ORGANS	Eyes. Respiratory system, lungs. Mucous membranes. Skin.

4. FIRST AID MEASURES

GENERAL	Remove affected person from source of contamination. Do not give victim anything to drink if he is unconscious.
INHALATION	Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. When risk of unconsciousness, place and transport the victim in secured sideposition. When unconscious, loosen tight clothing and position in secured sideposition. Get medical attention if any discomfort continues.
EYES	Promptly wash eyes with lots of water while lifting the eye lids. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if any discomfort continues.
SKIN	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Launder contaminated clothing before reuse.

INGESTION	Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. When unconscious, loosen tight clothing and position in secure sideposition. Consult a physician for specific advice. Contact your local poison control center or get medical attention.
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5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	Refer to individual product MSDS's
AUTO IGNITION TEMP. (°C)	No data available
EXTINGUISHING MEDIA	Use: Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).
SPECIAL FIRE FIGHTING PROCEDURES	Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Caution should be exercised when using water or foam as frothing may occur.
UNUSUAL FIRE & EXPLOSION HAZARDS	Pressure will increase in over heated, closed containers. May ignite at very high temperatures.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon. Nitrogen. Sulfur.
PROTECTIVE MEASURES IN CASE OF FIRE	Should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact. Remove sources of ignition.
PRECAUTIONS TO PROTECT THE ENVIRONMENT	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
SPILL CLEAN-UP PROCEDURES	Contain spill. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Do not reuse container. Keep lid closed when not in use. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash station should be available at the work place. Keep away from heat, sparks and open flame. Containers should be kept tightly closed.
STORAGE PRECAUTIONS	Keep container closed when not in use. Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers.
STORAGE CRITERIA	Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)	OSHA	None	None	5 mg/m3 as oil mist	None
	ACGIH	None	None	5 mg/m3 as oil mist	10 mg/m3 as oil mist
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	OSHA	15 mg/m3 (total)	as CaCO3	5 mg/m3 (resp)	as CaCO3
	ACGIH	1 mg/m3 (inh)	NIC 2005	10 mg/m3 **(e)	as CaCO3
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	OSHA	None	None	None	None
	ACGIH	None	None	None	None

PROTECTIVE EQUIPMENT



ENGINEERING CONTROLS

Use engineering controls to reduce air contamination to permissible exposure level. Provide hand washing and standard hygiene facilities. Provide eyewash station.

VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES

Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION

Wear chemical safety goggles where eye exposure is reasonably probable. Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

PROTECTIVE CLOTHING

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES

Wash promptly with soap & water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated. Isolate contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE	Grease.
COLOR	Blue green.
ODOR	Mild (or faint). Petroleum.
SOLUBILITY DESCRIPTION	Insoluble in water.
SOLUBILITY VALUE (g/100g H2O 20°C)	< 0.1
SPECIFIC GRAVITY	0.96
VAPOR DENSITY (air=1)	> 5

VAPOR PRESSURE	< 0.1 mmHg	Temperature (°C)	20 C (68 F)
EVAPORATION RATE	< 0.01	Reference	BuAc=1

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid contact with acids. Strong oxidizing agents.
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon. Nitrogen. Sulfur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA	Irritating effects. Eye. = Not irritating to mildly irritating (based on components). Irritating effects. Skin. = Not irritating to mildly irritating (based on components). Sensitization. Skin. = Not expected to be a sensitizer (based on components) Mutagenicity. = Not mutagenic or genotoxic Carcinogenicity. = Not carcinogenic
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TOXICOLOGICAL INFORMATION No experimental toxicological data on the preparation as such is available.

TOXIC DOSE - LD 50 > 5000 (Calculated based on components) mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN > 2,000 (Calculated based on components) mg/kg (skn rbt)

TOXIC CONC. - LC 50 > 2.18 (Calculated based on components) mg/l/4h (inh-rat)

COMPONENT **LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)**

TOXICOLOGICAL DATA	WHMIS (Canada) = Not a controlled product. Irritating effects. Eye. Rabbit. = Non-irritating to mildly irritating (Test data and Read across). Irritating effects. Skin. Rabbit. = Non-irritating to mildly irritating (Test data and Read across). Sensitization. Guinea pig. = Not known to be a sensitizer (Test data and Read across). Mutagenicity. = Not mutagenic or Genotoxic due to no or low concentration of 3 - 7 ring PACs (Test data and Read across)
TOXIC DOSE - LD 50	> 5,000 (Test data and read across) mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2,000 - 5,000 (Test data and read across) mg/kg (skn rbt)
TOXIC CONC. - LC 50	2.18 - >4 (Test data and read across) mg/l (inh-rat)
IRRITATION	Prolonged skin contact may cause irritation.

COMPONENT **OVERBASED CALCIUM SULFONATE COMPLEX THICKENER**

TOXICOLOGICAL DATA	WHMIS (Canada) Not listed Irritating effects. Eye. No data available Irritating effects. Skin. No data available Carcinogenicity. No data available
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	Sensitization. No data available
TOXIC DOSE - LD 50	> 2,000 (Read across) mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2,000 (Read Across) mg/kg (skn rbt)
TOXIC CONC. - LC 50	> 0.5 (Read across) mg/l (inh-rat)
COMPONENT	BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT
TOXICOLOGICAL DATA	WHMIS (Canada) D2B Reg. No. 4495 Irritating effects. Eye. No data available Irritating effects. Skin. No data available Carcinogenicity. No data available Sensitization. No data available
TOXIC DOSE - LD 50	4000 mg/kg (oral rat)
TOXIC DOSE - LD 50	3680 mg/kg (oral-mus)
TOXIC DOSE - LD 50 SKIN	No data available
TOXIC CONC. - LC 50	No data available

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	There is no ecological data on the product itself.
BIOACCUMULATION	No bioaccumulation expected.
BIODEGRADABILITY	The chemical is slowly, not readily biodegradable.
COMPONENT	LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)
ECOTOXICOLOGICAL DATA	Bioaccumulation. No data available Biodegradability. Not readily biodegradable, but inherently biodegradable (Test data and Read across)
LC50, 96 HRS, FISH, mg/l	> 100 to > 1000 mg/L WAF (Test data and Read across)
EC50, 48 HRS, DAPHNIA, mg/l	> 10000 mg/L WAF (Read across)
EC50, 72 HRS, ALGAE, mg/l	LLo (96 hour)= 500 WAF
COMPONENT	OVERBASED CALCIUM SULFONATE COMPLEX THICKENER
ECOTOXICOLOGICAL DATA	WGK = 2 Self assessment. Biodegradability. No data available Bioaccumulation. No data available
LC50, 96 HRS, FISH, mg/l	No data available
EC50, 48 HRS, DAPHNIA, mg/l	No data available
EC50, 72 HRS, ALGAE, mg/l	No data available
COMPONENT	BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT
ECOTOXICOLOGICAL DATA	WGK 2 Bioaccumulation. No data available Biodegradability. No data available
LC50, 96 HRS, FISH, mg/l	No data available
EC50, 48 HRS, DAPHNIA, mg/l	No data available
EC50, 72 HRS, ALGAE, mg/l	No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.
WASTE CLASSIFICATION	Under RCRA it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for a hazardous waste. State and local regulations should also be consulted regarding proper disposal.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME	Not regulated
TDGR SHIPPING NAME	Not regulated
SEA TRANSPORT NOTES	Not regulated per IMDG.
AIR TRANSPORT NOTES	Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)	No	No	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	No	1 000 lbs	No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	No

SARA HAZARD CATEGORIES Acute

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)	No	No	No	No	No	No	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No	No	No	No	No
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	No	Yes	No	No	Yes	EH	No

STATE REGULATORY STATUS PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the

MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.
Benzenesulfonic acid, dodecyl-, sodium salt, Environmental Hazard, CAS# 25155-30-0

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

CONTROLLED PRODUCT CLASSIFICATION

Not a controlled product.

Risk phrases

Risk Phrases and Classification Applicable in the European Union (EU):

Not classified as hazardous per Directives 67/548/EEC and 1999/45/EEC as well as Regulations (EC) No 1907/2006 and 1272/2008.

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (<3% IP346 DMSO Extracts)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

USA (TSCA)

All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

CANADA (DSL)

All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.

EUROPE (EINECS/ELINCS/NLP)

All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.

JAPAN (ENCS)

All components in this product are listed on the Japan Inventory of Existing and New Chemical Substances (ENCS) or are exempt from ENCS requirements.

PHILIPPINES (PICCS)

All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements.

AUSTRALIA (AICS)

All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.

KOREA (ECL)

All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.

CHINA (IECS)

All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are exempt from IECS requirements.

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH

Irritation, minor residual injury (1) - HMIS/NFPA

FLAMMABILITY

Burns only if pre-heated (1) - HMIS/NFPA

REACTIVITY

Normally stable (0) - HMIS/NFPA

PERSONAL PROTECTION INDEX B - Safety Eyewear and Gloves

NPCA HMIS FLAMMABILITY INDEX Burns only if pre-heated (1).

Tariff Code (Schedule B) US EXPORT: US HTS SCHEDULE B CODE (2010): 2710.19.9000 Other petroleum oils and preparations containing, as basic constituents, >/= 70 wt% of petroleum oils
US IMPORT: US HTS CODE (2010): 2710.19.9000 Other petroleum oils and preparations containing, as basic constituents, >/= 70 wt% of petroleum oils.

PREPARED BY Regulatory Department, Chemtool, Incorporated

REVISION No. 1.1

MSDS No. 12769

DATE 2010-05-10

DISCLAIMER While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.

* Information revised since previous MSDS version

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