



Material Safety Data Sheet

Issuing Date 24-Apr-2014

Revision Date 24-Apr-2014

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name C10, G10, N10, C20, G20, S20, SV20

Recommended Use Viscometer and/or density measurement equipment calibration and performance verification reference standard

Supplier Address

Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232

Emergency Telephone Number

(800) 255-3924 Domestic CHEM-TEL Inc.
+1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Aspiration hazard if swallowed - can enter lungs and cause damage
Harmful by inhalation

Appearance Pale yellow

Physical State Liquid.

Odor Hydrocarbon-like

Potential Health Effects

Acute Toxicity

Eyes

Contact with eyes may cause irritation.

Skin

No known hazard in contact with skin. Prolonged or repeated contact may cause skin dryness or cracking. Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

Inhalation

Harmful by inhalation. Mist or vapors may irritate mucous membranes.

Ingestion

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Prolonged skin contact with liquid may defat skin and produce dermatitis. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Aggravated Medical Conditions

None known.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Residual oils (petroleum), solvent refined	64742-01-4	<85
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	<85
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	<85
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	<85
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	<85
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	<85
Naphtha (petroleum), hydrotreated heavy	64742-48-9	<85
Chloroalkanes	61788-76-9	<85
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	<85

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention if irritation persists.
Skin Contact	Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur.
Inhalation	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.			
Flash Point	> 145 °C			
Flashpoint Method	Open cup			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Explosion Data				
Sensitivity to Mechanical Impact	None.			
Sensitivity to Static Discharge	None			
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<u>NFPA</u>	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment.
Environmental Precautions	Prevent further leakage or spillage if safe to do so.
Methods for Containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for Cleaning Up	Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	
Residual oils (petroleum), solvent refined 64742-01-4	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	

Engineering Measures	Showers Eyewash stations Ventilation systems
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Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow.	Odor	Hydrocarbon-like.
Odor Threshold	No information available.	Physical State	Liquid
pH	No information available.		
Flash Point	> 145 °C	Flashpoint Method	Open cup
Autoignition Temperature	No information available.	Decomposition Temperature	No information available.
Boiling Point/Boiling Range	>260 °C	Melting Point/Range	No information available.
		Flammability Limits in Air	No information available.
Specific Gravity	0.87-0.88	Specific Gravity	@ 15 °C
Water Solubility	Insoluble in water.	Solubility	Soluble in solvents.
Evaporation Rate	No information available.	Vapor Pressure	No data available.
Vapor Density	No data available.	Viscosity	10-20 cSt @ 40°C

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Hazardous Decomposition Products	None known based on information supplied.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Inhalation	Harmful by inhalation. Inhalation of mist may cause irritation to the respiratory system.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	No known hazard in contact with skin. Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated contact may dry skin and cause irritation.
Ingestion	Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent-refined heavy paraffinic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Petroleum distillates, solvent-refined light paraffinic	> 5000 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Residual oils (petroleum), solvent refined	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	= 2.18 mg/L (Rat) 4 h
Naphtha (petroleum), hydrotreated heavy	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	
Petroleum distillates, hydrotreated heavy paraffinic	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	
Petroleum distillates, solvent dewaxed heavy paraffinic			>4.7 mg/l (rat) 4 hr.

Chronic Toxicity

Chronic Toxicity	Prolonged skin contact with liquid may defat skin and produce dermatitis. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
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Carcinogenicity	Petroleum products are known to cause cancer because of carcinogenic components (e.g. benzene, DMSO). These carcinogenic components are typically found in crude petroleum products and are removed through the refinement process.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Residual oils (petroleum), solvent refined	A2	Group 1		
Petroleum distillates, solvent-refined light paraffinic	A2	Group 1		X
Petroleum distillates, solvent-refined heavy paraffinic	A2	Group 1		X
Petroleum distillates, solvent dewaxed heavy paraffinic	A2	Group 1		X
Petroleum distillates, hydrotreated heavy paraffinic	A2	Group 1		X
Petroleum distillates, hydrotreated heavy naphthenic	A2	Group 1		X
Chloroalkanes		Group 2B		X
Petroleum distillates, hydrotreated light naphthenic	A2	Group 1		X

Target Organ Effects

Skin. Central nervous system (CNS). Eyes. Respiratory system.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Residual oils (petroleum), solvent refined	-	> 5000 mg/L: LC50 96 h (Oncorhynchus mykiss)	-	EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, solvent-refined light paraffinic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, solvent-refined heavy paraffinic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, solvent dewaxed heavy paraffinic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, hydrotreated heavy paraffinic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, hydrotreated heavy naphthenic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Naphtha (petroleum), hydrotreated heavy		LC50 96 h: = 2200 mg/L (Pimephales promelas)		LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
Petroleum distillates, hydrotreated light naphthenic		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)

13. DISPOSAL CONSIDERATIONS**Waste Disposal Methods**

Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION**Note:**

The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION**International Inventories****TSCA**

Not determined

DSL

Complies

NDSL	Complies
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Chloroalkanes				X	
Petroleum distillates, solvent-refined heavy paraffinic				X	
Petroleum distillates, solvent-refined light paraffinic		X		X	
Petroleum distillates, hydrotreated heavy naphthenic				X	

Petroleum distillates, hydrotreated heavy paraffinic				X	
Petroleum distillates, solvent dewaxed heavy paraffinic				X	
Petroleum distillates, hydrotreated light naphthenic		X		X	

International Regulations

Canada

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

WHMIS Hazard Class

D1B Toxic materials



16. OTHER INFORMATION

Prepared By

Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date

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Revision Note

Initial Release

General Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet