MATERIAL SAFETY DATA SHEET

Revised date: 23/06/2017

1. PRODUCT NAME AND IDENTIFICATION

Product Name: JCP 706 CSC GREASE FLOW
Chemical Name & Synonyms: N/A
CAS Number: N/A, Mixture
Company Name: JCP GROUP(THAILAND) CO., LTD.
Tel & Fax.: +(66)34-410-824 **Emergency**: +(66)85-105-6034

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	% by Wt.
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	64742-65-0	40-70
Calcium carbonate	1317-65-3	10-30
C10-C16 alkybenzenesulfonic acid calcium salt	68584-23-6	10-30
Calcium-12-Hydroxystearate	3159-62-4	1-5
Styrene-Ethylene/Propylene Block Copolymer	68648-89-5	1-5
Tricalcium phosphate	1306-06-5	1-5
Hexylene glycol	107-41-5	1-5
Polyalphaolefin	68037-01-4	1-5

3. HAZARDS IDENTIFICATION

Emergency overview: Can cause irritation or damage to eyes and skin. Harmful if swallowed.
Routes of Exposure: Inhalation: [✓] Ingestion: [✓] Absorption: [✓]
Eyes: Causes eye irritation.
Skin: May cause skin irritation.
Inhalation: Prolonged skin contact may defat the skin and produce dermatitis. Harmful if inhaled and may cause delayed lung injury.
Ingestion: Ingestion may cause irritation to mucous membranes. Causes headache, drowsiness or other effects to the central nervous system. Aspiration hazard if swallowed - can enter lungs and cause damage.
Carcinogenicity: Contains no listed carcinogens.

4. FIRST AID MEASURES

General Advice: Avoid contact with skin, eyes and clothing. Show this safety data sheet to the doctor in attendance.
Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact: Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to Physician: May cause sensitization of susceptible persons..

5. FIRE FIGHTING MEASURES

Flash Point 490°F / 254°C **Method** open cup
Autoignition Temperature N/A
Flammability Limits in Air Mixture Upper N/A Lower N/A
Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific Hazards Arising from the Chemical Material can create slippery conditions.
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.

NFPA	Health 2	Flammability 1	Instability 0
HMIS	Health 2	Flammability 1	Instability 0

6. ACCIDENTAL RELEASE (SPILL MEASURES)

Personal Precautions	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)
Methods for Cleaning Up	Pick up and transfer to properly labelled containers. Never return spills in original containers for re-use.
Neutralizing Agent	Not applicable

7. HANDLING AND STORAGE

Handling	Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labelled containers.
Storage Temperature	**Minimum** 0°F / -18°C **Maximum** 120°F / 49°C
Storage Conditions	**Indoor** X **Outdoor** X **Heated** X **Refrigerated** X

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	TWA: 5 mg/m3 STEL: 10 mg/m3	TWA: 5 mg/m3	N/A
Calcium carbonate		TWA: 15 mg/m3 TWA: 5 mg/m3	TWA: 10 mg/m3 TWA: 5 mg/m3
C10-C16 alkybenzenesulfonic acid calcium salt	N/A	N/A	N/A
Calcium-12-Hydroxystearate	N/A	N/A	N/A
Styrene-Ethylene/Propylene Block Copolymer	N/A	N/A	N/A
Tricalcium phosphate	N/A	N/A	N/A
Hexylene glycol	Ceiling: 25 ppm	N/A	Ceiling: 25 ppm Ceiling: 125 mg/m3
Polyalphaolefin	N/A	N/A	N/A

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators..

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)

Physical State	Semi-Solid	**Viscosity**	Gel
Color	Honey	**Odor**	Petroleum-like
Appearance	Opaque	**pH**	Not applicable
Specific Gravity	1.01	**Bulk Density**	Not applicable
Evaporation Rate	0 (Butyl acetate=1)	**Percent Volatile (Volume)**	2.6
VOC Content (%)	2.2	**Vapor Pressure**	<0.1 mmHg @ 70 °F
Vapor Density	5.1	**Solubility**	Negligible

Boiling Point/Range 610°F / 321°C

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur .
Conditions to Avoid	Heat, flames, and sparks.
Incompatible Products	Strong oxidizing agents. Strong acid and base.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx), Oxides of phosphorus, Sulfur oxides.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Component Information Petroleum distillates, hydrotreated light

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	N/A	N/A	N/A	N/A	N/A
Calcium carbonate	6450 mg/kg (Rat)	N/A	N/A	N/A	N/A
C10-C16 alkybenzenesulfonic acid calcium salt	N/A	N/A	N/A	N/A	N/A
Calcium-12-Hydroxystearate	N/A	N/A	N/A	N/A	N/A
Styrene-Ethylene/Propylene Block Copolymer	N/A	N/A	N/A	N/A	N/A
Tricalcium phosphate	N/A	N/A	N/A	N/A	N/A
Hexylene glycol	3692 mg/kg (Rat)	N/A	> 310 mg/m3 (Rat) 1 h	N/A	N/A
Polyalphaolefin	N/A	N/A	N/A	N/A	N/A

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	N/A	N/A	N/A	N/A	lungs
Calcium carbonate	N/A	N/A	N/A	N/A	eyes, respiratory system, skin
C10-C16 alkybenzenesulfonic acid calcium salt	N/A	N/A	N/A	N/A	N/A
Calcium-12-Hydroxystearate	N/A	N/A	N/A	N/A	N/A
Styrene-Ethylene/Propylene Block Copolymer	N/A	N/A	N/A	N/A	N/A
Tricalcium phosphate	N/A	N/A	N/A	N/A	N/A
Hexylene glycol	N/A	Skin sensitization	N/A	N/A	eyes, CNS, respiratory system, skin, immune system
Polyalphaolefin	N/A	N/A	N/A	N/A	N/A

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

ACGIH not applicable
IARC not applicable
NTP not applicable
OSHA not applicable
Other not applicable

12. ECOLOGICAL INFORMATION

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable)	N/A	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	N/A	EC50> 1000 mg/L 48 h	N/A
Calcium carbonate	N/A	no data available	N/A	N/A	N/A
C10-C16 alkybenzenesulfonic acid calcium salt	N/A	no data available	N/A	N/A	N/A
Calcium-12-Hydroxystearate	N/A	no data available	N/A	N/A	N/A
Styrene-Ethylene/Propylene Block Copolymer	N/A	no data available	N/A	N/A	N/A
Tricalcium phosphate	N/A	no data available	N/A	N/A	N/A
Hexylene glycol	N/A	LC50 10500 - 11000 mg/L Pimephales promelas 96 h LC50 = 10000 mg/L Lepomis macrochirus 96 h LC50 = 8690 mg/L Pimephales promelas 96 h LC50 = 10700 mg/L Pimephales promelas 96 h	EC50 = 3038 mg/L 5 min	EC50 2700 - 3700 mg/L 48h	<0.14
Polyalphaolefin	N/A	no data available	N/A	N/A	N/A

Persistence and Degradability No information available
Bioaccumulation: No information available
Mobility: No information available
Biodegradability: Result: Not readily biodegradable.
Further information on ecology
Biochemical Oxygen Demand (BOD): No data available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of as hazardous waste in compliance with local and national regulations
Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the
reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Petroleum distillates, hydrotreated light
Hazardous Substances RQs	Not applicable
CERCLA EHS RQs	Not applicable

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	B3 Combustible liquid, D2B Toxic materials .

16. OTHER INFORMATION

The above information is based on data available to us and is believed to be correct. However, no warranty, merchantability, fitness for any use or any other warranty is expressed or to be implied regarding the accuracy of these data, the result to be obtained from the use thereof, the hazards connected with the use of the material, or that any such use will not infringe any patent. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility resulting from its use. This information is furnished upon the condition that the person receiving it shall make his own determination for the suitability of the material for his particular purposes.