MATERIAL SAFETY DATA SHEET

Revised date: 14/03/2018

1. PRODUCT NAME AND IDENTIFICATION

Product Name: JCP 210 ELECT CLEANER
Chemical Name & Synonyms: N/A
CAS Number: N/A, Mixture
Company Name: JCP GROUP(THAILAND) CO., LTD.
Tel & Fax.: +(66)34-412-824 **Emergency**: +(66)85-105-6034

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	% by Wt.	OSHA TWA (ppm)	ACGIH-TWA (ppm)
ALIPHATIC HYDROCARBON MIXTURE	64742-9-0	70 - 80 %	N/A	N/A
PROPELANT	74-98-6	20 - 30 %	N/A	N/A

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: Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE FIGHTING MEASURES

Flash Point 7.2 **Method** Seta Closed Cup
Autoignition Temperature N/A

Flammability Limits in Air Mixture Upper 10.2 Lower 1.3

Suitable Extinguishing Media Water spray. Foam. Dry chemical. Carbon dioxide (CO2).

Specific Hazards Arising from the Chemical Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. Material can create slippery conditions. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

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 1	Flammability 4	Instability 0
HMIS	Health 1	Flammability 4	Instability 0

6. ACCIDENTAL RELEASE (SPILL MEASURES)

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.
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** 35°F / 2°C **Maximum** 120°F / 49°C
Storage Conditions	**Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
ALIPHATIC HYDROCARBON MIXTURE	No data available	No data available	No data available
PROPELANT	TWA : 1000 ppm	TWA : 1000 ppm TWA : 1800 mg/m^3	IDLH : 2100 ppm TWA : 1000 ppm TWA : 1800 mg/m^3

Engineering Measures	Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin Protection	For prolonged or repeated contact use protective gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.

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	Liquid	**Viscosity**	Non viscous
Color	Colorless	**Odor**	Characteristic Odor
Appearance	Transparent	**pH**	Not applicable
Specific Gravity	0,67 – 0.69	**Bulk Density**	Not applicable
Evaporation Rate	2.1 (Butyl acetate=1)	**Percent Volatile (Volume)**	100
VOC Content (%)	100	**Vapor Pressure**	Not Applicable
Vapor Density	1.70	**Solubility**	Insoluble
Boiling Point/Range	64 - 70°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.
Hazardous Decomposition Products	Carbon oxides.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

ALIPHATIC HYDROCARBON MIXTURE

LD50 Oral Rat	>5000 mg/kg
LC50 Inhalation Rat	>20 mg/l 4h

PROPELANT

LC50 Inhalation Rat	658 mg/l 4h

Chronic Toxicity

Mutagenicity	The possibility of an embryotoxic effect has not yet been fully assessed.
Sensitization	no data available
Developmental Toxicity	no data available
Reproductive Toxicity	no data available
Target Organ Effects	CNS

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 Information	Mix chlorinated compound
Toxicity to Algae	EC0 = 125 mg/l Sc. Quadricauda

Toxicity to Fish	LC50= 220 mg/L Lepomis macrochirus
	LC50= 45 mg/L Pimephales promelas
Microtox	EC0 = 500 mg/l Ps. pudita
Water Flea	no data available
log Pow	no data available

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

Transport over land ADR/RID and GGVS/GGVE

GGVS/GGVE Class	6.1	Number and Letter	15c
ADR/RID Class	6.1	Number and Letter	15c
Name of material:	1593 DICHLOROMETHANE		

River transport AND/ADNR
Not examine

Sea transport IMDG

IMDG Class	6.1	UN-No.	1593	Package group	III
EMS	6.1 - 02	MFAG	340		
Correct technical name	DICHLOROMETHANE				

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class	6.1	UN/IO-No.	1593	Package group	III
Correct technical name	DICHLOROMETHANE				

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGV/GGVE). Possible national deviations in other countries are not considered.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol:	Xn	Harmful immediately and show this container or label
R-phases	R 40	Possible risk of irreversible effects
S-phass	S 23.2 – 24/25 – 36/37	Do not breath vapor. Avoid contact with skin and eyes. Wear suitable Protective.
EC -No.	200-838-9	EC Label

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.