Cleaner JC-Q108 – Technical Data Sheet

Product Introduction

This product is a volatile, solvent-based cleaner. It is a colorless, transparent liquid with strong solvency and good volatility. It effectively removes flux, conformal coating and other residues from workpiece surfaces, and features strong cleaning power, low volatility and non-toxicity. It contains no benzene, trichloroethylene, n-hexane or other harmful substances, and complies with the relevant requirements for VOC, RoHS 2.0, halogens, REACH and Apple Regulated Substances Specification 069-0135-L.

Product Specifications

Item	Specification
Appearance	Colorless, transparent liquid
Density (20 °C), g/cm^3	0.95 ± 0.05
Flash point (°C)	62
Boiling point (°C)	154.5
Copper strip corrosion	Pass
Halogen content	Not detected (ND)

Other Information

Packaging: 200 L/drum, 20 L/drum or 18 kg/drum. Shelf life: six months when sealed.
This product is flammable. Smoking and open flames are strictly prohibited in storage, transport and work areas.
Store at a temperature not exceeding 30 °C.

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Chemical Safety Data Sheet (MSDS)

1. Chemical Product and Company Identification

1.1	**Product Code:**	JC-Q108
1.2	**Product Name:**	Cleaner
1.4	**Effective Date:**	Aug. 2, 2022
1.5	**Revision Date:**	Sep. 11, 2025

2. Hazards Identification

2.1	**GHS Label Elements:**	
	Pictogram:	 GHS07 (exclamation mark)
	Signal Word:	Warning
	Classification:	Acute toxicity, oral (Category 4)
	Hazard Statement:	Harmful if swallowed.
2.2	**Routes of Exposure:**	Inhalation, ingestion, skin absorption.
2.3	**Health Hazards:**	Irritating to mucous membranes; has anesthetic effects. Inhalation of vapor may irritate the nose and throat; high concentrations may cause dizziness. Damaging to the eyes; damage may persist for several days. Prolonged skin contact may cause dryness.
2.4	**Precautionary Statements:**	Wear required personal protective equipment. Wear protective gloves. Keep away from ignition sources such as sparks and open flames. Keep container tightly closed. Keep out of reach of children. Wash hands thoroughly after handling.

3. Composition / Information on Ingredients

3.1 **Chemical Nature:** Mixture

Component	Content (%)	CAS No.
Dimethyl carbonate	10-20	616-38-6
N,N-Dimethylformamide (DMF)	50-60	68-12-2
Ethylene glycol monoethyl ether acetate	30-40	111-15-9

4. First Aid Measures

4.1	**Skin Contact:**	Remove contaminated clothing and wash thoroughly with soapy water and clean water.
4.2	**Eye Contact:**	Lift the eyelids and rinse with running water or normal saline. Seek medical attention.
4.3	**Inhalation:**	Move quickly to fresh air and keep the airway clear. If breathing is difficult, give oxygen; if breathing stops, give artificial respiration immediately. Seek medical attention.
4.4	**Ingestion:**	Drink plenty of warm water, induce vomiting and seek medical attention.

5. Fire-Fighting Measures

5.1	**Hazardous Characteristics:**	Combustible. Vapor can form explosive mixtures with air; may burn or explode on contact with open flame or high heat. Reacts strongly with oxidizing agents. High flow rates can generate and accumulate static electricity. Vapor is heavier than air and can travel considerable distances along low areas; flashback may occur on contact with an ignition source.
5.2	**Hazardous Decomposition Products:**	Carbon monoxide, carbon dioxide.
5.3	**Fire-Fighting Methods:**	Cool containers with water spray and, if possible, move them from the fire area to an open space. Evacuate immediately if containers in the fire discolor or make noise from pressure-relief devices.
5.4	**Extinguishing Media:**	Foam, dry powder, carbon dioxide, sand. Water is ineffective for extinguishing.

6. Accidental Release Measures

6.1	**Emergency Response:**	Quickly evacuate personnel from the contaminated area to a safe zone, isolate the area and strictly restrict access. Emergency responders should wear self-contained positive-pressure breathing apparatus and protective clothing, and approach from upwind. Stop the leak if possible. Prevent entry into sewers, storm drains and other confined spaces.
6.2	**Small Spills:**	Absorb with sand or other non-combustible material. Alternatively, scrub with an emulsion made from a non-flammable dispersant, dilute the washings and discharge to the wastewater system.
6.3	**Large Spills:**	Contain with dikes or pits. Cover with foam to reduce vapor hazards. Pump into a tanker or dedicated collector for recovery or transport to a waste disposal site.

7. Handling and Storage

7.1	**Handling:**	Use in closed systems with enhanced ventilation. Operators must be specially trained and strictly follow operating procedures. Wear chemical safety goggles, anti-static work clothing and oil-resistant rubber gloves. Use explosion-proof ventilation systems and equipment to prevent vapor release into the workplace.
7.2	**Storage:**	Store in a cool, ventilated warehouse away from sparks and heat sources. Storage temperature should not exceed 30 °C. Protect from direct sunlight. Keep containers sealed and out of contact with air. Store separately from alkalis, active metal powders, alkali metals and food chemicals; do not store together. Provide suitable fire-fighting equipment, spill response equipment and containment materials.

8. Exposure Controls / Personal Protection

8.1	**Engineering Controls:**	Enclose the process and provide enhanced local ventilation. Provide emergency eyewash equipment on site.
8.2	**Respiratory Protection:**	Wear a half-face air-purifying respirator when airborne concentrations exceed limits. Wear an oxygen breathing apparatus for emergency rescue or evacuation.
8.3	**Eye Protection:**	Wear chemical safety goggles.
8.4	**Body Protection:**	Wear chemical- and oil-resistant anti-static work clothing.
8.5	**Hand Protection:**	Wear chemical-resistant gloves.
8.6	**Other Protection:**	No smoking, eating or drinking in the work area. Shower and change clothes after work. Store contaminated clothing separately and wash before reuse. Maintain good personal hygiene.

9. Physical and Chemical Properties

9.1	**Appearance:**	Colorless, volatile liquid
9.2	**Relative Density (water = 1):**	0.95 ± 0.05
9.3	**Flash Point (°C):**	62
9.4	**Boiling Point (°C):**	154.5
9.5	**Solubility:**	Soluble in water

10. Stability and Reactivity

10.1	**Stability:**	The product is stable under normal conditions.
10.2	**Conditions to Avoid:**	Heat sources, sparks, open flames or other ignition sources.
10.3	**Incompatible Materials:**	Strong oxidizers, acids, alkalis.
10.4	**Hazardous Decomposition Products:**	CO, CO_2, H_2O
10.5	**Hazardous Polymerization:**	Will not occur.

11. Toxicological Information

11.1	**Acute Toxicity:**	LC_{50}: 1,430 mg/L (96 h) (fathead minnow); 10,000-13,000 mg/L (96 h) (rainbow trout)
11.2	**Abiotic Degradation:**	In air, at a hydroxyl radical concentration of [value not given] radicals/cm^3, the degradation half-life is 22 h (theoretical).

12. Ecological Information

12.1	**Ecotoxicity:**	No data available.
12.2	**Biodegradability:**	No data available.
12.3	**Abiotic Degradation:**	No data available.
12.4	**Other Adverse Effects:**	No data available.

13. Disposal Considerations

13.1	**Disposal Method:**	Dispose of by incineration.
13.2	**Precautions:**	Handle in accordance with government regulations.

14. Transport Information

14.1	**Package Marking:**	No data available.
14.2	**Packaging:**	Drums, 20 L/drum or 200 L/drum
14.3	**Transport Precautions:**	Before transport, check that containers are intact and sealed. During transport, ensure containers do not leak, tip over, fall or become damaged. Do not transport together with acids, oxidizers, food or food additives. Transport vehicles must carry appropriate fire-fighting and spill response equipment. Protect from sunlight, rain and high temperatures. Road transport must follow designated routes.

15. Regulatory Information

15.1	**Applicable Regulations:**	Regulations on the Safe Management of Hazardous Chemicals (issued by the State Council on Dec. 22, 2002), Regulations on the Safe Use of Chemicals in the Workplace ([1996] Ministry of Labour Document No. 423) and other regulations, which set out requirements for the safe use, production, storage, transport, loading and unloading of hazardous chemicals.

16. Other Information

	Note:	This information applies only to the specified substance and may not apply when it is mixed with other substances or during use. It is for reference only and does not constitute a basis for legal liability. Users should determine the most suitable procedures or control methods for their own process requirements to ensure consistent quality.