

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	DJC-201 NF
Manufacturer's Product Code	5697
Other Names	Non-flammable cleaner and degreaser for electrical equipment.
Major Recommended Uses	For cleaning and degreasing electrical equipment.
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	May 2007

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk	Class 2.2
Poisons Schedule	None allocated.
Risk Phrases	Harmful by inhalation.
Safety Phrases	Keep out of reach of children. Keep container in a well-ventilated place. Avoid contact with skin.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients			
Chemical Entity	CAS No	Proportion	Synonyms
1-bromopropane	106-94-5	>60%	N-propyl bromide
'INGREDIENTS DETERMINED NOT TO BE HAZARDOUS'		to 100%	

SECTION 4 – FIRST AID MEASURES

Skin	Wash affected areas with plenty of soap and water for several minutes. Seek medical attention if irritation develops.
Eye	Rinse eyes thoroughly with water for several minutes. Seek medical attention if irritation develops.
Inhalation	Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	Give 3-4 glasses of water, but do NOT induce vomiting. If vomiting occurs, give fluids again. Seek medical attention if discomfort occurs.
First Aid Facilities	General eyewash.
Advice to Doctor	There is no specific antidote. Treat the patient symptomatically.
Additional Information	Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema and dermatitis. Target organs: Central and peripheral nervous system, lungs, heart, liver, kidneys and testes. The primary routes of entry into the body are via inhalation and absorption.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	In the event of a fire, dry chemical, foam and CO ₂ are the recommended extinguishing agents.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear.
Fire/Explosive Hazards	Use water spray to cool fire exposed containers to prevent bursting. Never use a water jet as this will spread the fire. Vapours are heavier than air and may travel to distant sources of ignition and flashback.
Hazchem Code	2Y

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean Up	Due to the nature of aerosol packaging, a large spill is unlikely. For a small spill, ventilate the area and absorb with an inert material or cloth. Dispose of waste in a closed, labelled container in accordance with local, state and Commonwealth laws. Typical disposal is to wrap the empty aerosol container in several layers of newspaper and dispose of in the garbage. Do not puncture or incinerate the can.
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SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Observe precautions stated on product label, and follow industry safety regulations. Eating and smoking should be prohibited where the preparation is used. Use with caution around heat, sparks, pilot lights, static electricity and open flame.
Conditions for Safe Storage	Store indoors in the in original container. Store in a dry, well-ventilated area. Store below 49°C.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	Not established for this mixture. The exposure limits for individual components follow: 1-bromopropane: TLV TWA – 100ppm 2-propanol: TWA – 400ppm (983mg/m ³); STEL – 500ppm (1230mg/m ³) Carbon dioxide TWA – 5000ppm(9000mg/m ³);STEL – 30000ppm(54000mg/m ³)
Engineering Controls	General exhaust is usually adequate, although local ventilation is recommended to control exposure from operations that can generate mists or vapours.
Personal Protective Equipment	
Eye/Face Protection:	Wear safety glasses with shields if the method of use presents the likelihood of eye contact. AS1336 and AS/NZS1337 should be consulted for information on eye protection.
Skin Protection	Neoprene or nitrile rubber gloves should be worn if repeated or prolonged skin contact is likely. Refer to AS/NZS 2161 for information on glove selection. Wear general duty work clothing and shoes.
Respiratory Protection	None required under normal conditions of use. If misting is likely to occur, or if used in poorly ventilated areas where exposure will be above the TLV, an approved organic vapour respirator meeting the requirements outlined in AS/NZS 1715 and AS/NZS 1716 should be used.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent, colourless, non-viscous liquid with a sweet odour.
pH	Not applicable
Vapour Pressure	110.8mm Hg
Vapour Density	4.27 (Air = 1)
Boiling Point	71°C
Melting Point	Not applicable
Solubility in Water (g/L)	Negligible
Specific Gravity	1.35 (Water = 1)
Flashpoint	>93°C
Flashpoint Method	T.C.C
Flammability Limits	LEL: 2.0%; UEL: 12.7%
% Volatiles by Volume	100%
Evaporation Rate	10.10 (BU A/C = 1)

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Avoid strong oxidising agents such as chlorine bleach and concentrated hydrogen peroxide; strong acids and bases; rubber and some paints and plastics.
Hazardous Decomposition Products	Oxides of carbon and hydrogen bromide.

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SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute - Swallowed	May cause irritation with possible nausea, vomiting and diarrhoea
Acute - Eye	May cause irritation seen as tearing and redness.
Acute - Skin	May cause irritation seen as itching and redness. Product may be absorbed through intact skin with similar effects to inhalation.
Acute - Inhaled	May cause respiratory irritation seen as coughing and sneezing. Exposure to high concentrations may cause dizziness, headache, anaesthesia and other central nervous system effects.
Chronic	Exposure to high doses may cause liver, lung and kidney effects.
Target Organs	Central and peripheral nervous system, heart, liver, lungs, kidneys and testes.
Product Contains Chemicals Listed as Carcinogens by	International Agency for the Research of Cancer (IARC): NO Other: NO

SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen.	
Persistence/Degradability	No specific information. Rapid evaporation of product means persistence is not an issue.
Mobility in Soil	Not soluble in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not incinerate or puncture aerosol cans. If aerosol can develops a leak, allow to fully discharge before disposal. Prevent disposal in sewers and waterways. Normally suitable for disposal at approved land waste site, but review Commonwealth, State and local government requirements prior to disposal.

SECTION 14 – TRANSPORT INFORMATION

UN Number	UN1950
UN Proper Shipping Name	Aerosol
Transport Hazard Class	ADG Class 2, no sub-risk.
Packaging Group	Not applicable.
Hazchem Code	2Y

SECTION 15 - REGULATORY INFORMATION



IRRITANT



Poisons Schedule: None allocated

SECTION 16 – OTHER INFORMATION

May 2007: Addition of pictograms to Section 15
Replaces MSDS version dated Feb 2006.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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