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* Canadian Centre for Occupational Health and Safety *
* * * * * (February, 2002) *

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*** IDENTIFICATION ***

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MSDS RECORD NUMBER      : 2758217
PRODUCT NAME(S)         : KLEEN AND DRY CRT SCREEN CLEANING PADS
PRODUCT IDENTIFICATION  : Document No.: 05-5091-3
                        : Product ID:
                        : XR-1815-5149-4
DATE OF MSDS            : 1999-11-30
CURRENCY NOTE           : This MSDS was provided to CCOHS in electronic form on
                        : 2001-06-25

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*** MANUFACTURER INFORMATION ***

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MANUFACTURER           : 3M CANADA COMPANY
ADDRESS                 : POST OFFICE BOX 5757
                        : LONDON ONTARIO
                        : CANADA N6A 4T1
                        : Telephone: 519-451-2500
EMERGENCY TELEPHONE NO. : 519-451-2500 EXT 2222 (Medical)

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MANUFACTURER NOTE :
 FOR FURTHER INFORMATION PLEASE CONTACT VIVIAN COTHROS, SPECIALIST,
 REGULATORY AFFAIRS, 519-452-4669.

*** MATERIAL SAFETY DATA ***

3M Canada Company
 Post Office Box 5757
 London, Ontario N6A 4T1
 Medical Emergency Telephone: (519)451-2500, Ext. 2222

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Material Safety Data Sheet

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Document id      : 05-5091-3      Issue date       : 11/30/1999
Version         : 5.00           Supersedes date  : 11/08/1999
Prepared by: Environmental Health and Safety Services Department, 3M
Canada Company.
Telephone: (519) 452-6102, Fax: (519) 452-6015.

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1 Product Identification

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Tradename:
  KLEEN AND DRY CRT SCREEN CLEANING PADS
Product ID:
  XR-1815-5149-4
Intended Use of Product:
  Cleaning Pad
Division:
  SAFETY & SECURITY SYSTEMS DIVISION
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2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
ISOPROPYL ALCOHOL	67-63-0	60 - 70

C12-C18-ALKYL [(ETHYLPHENYL)METHYL] DIMETHYL AMMONIUM CHLORIDES	68956-79-6	< 1.0
AMMONIA	7664-41-7	< 1.0
BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES	68391-01-5	< 1.0

3 Hazards Identification

Critical Hazards

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Flammable liquid and vapour. Vapours may ignite explosively.

See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

Instructions for Skin Contact:

Flush skin with large amounts of water. If irritation persists, get medical attention.

Instructions for Inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Instructions for Ingestion:

Do not induce vomiting. Drink two glasses of water. Call a physician.

5 Fire Fighting Measures

Flash point:	21.7 C
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Autoignition temperature:	Not applicable.

Suitable Extinguishing Media:

Water spray; Carbon dioxide; Dry chemical; Alcohol-type foam

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

None known.

Fire Fighting Procedures:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

6 Accidental Release Measures

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Spill Response:

Ventilate area. Extinguish all ignition sources. Contain spill. Collect using non-sparking tools. Cover with inorganic absorbent material. Clean up residue with water. Place in an approved container and seal.

7 Handling and Storage

Storage Requirements:

Store in a cool place. Keep container dry.

Incompatible Materials:

Store away from acids. Store away from heat. Store out of direct sunlight. Keep away from aluminum and zinc.

Ventilation:

Keep container in well-ventilated area.

Fire Prevention:

No smoking while handling this material.

Explosion Prevention:

Flammable liquid and vapour. Keep away from heat, sparks, open flame, and other sources of ignition. Vapours may ignite explosively.

Use Instructions:

Keep container tightly closed.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Respirator not normally required.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Use with appropriate local exhaust ventilation.

Ingredient Exposure Data

ISOPROPYL ALCOHOL (67-63-0)

LD50 (rat, oral): 4710 mg/kg

LC50 (rat, inhalation/4 hours): 17000 ppm

PIN (Product Identification Number): 1219

Ontario TWAEV: 400 ppm 980 mg/m3

Ontario STEV: 500 ppm 1225 mg/m3

ACGIH TLV-TWA: 400 ppm 985 mg/m3

ACGIH TLV-STEL: 500 ppm 1230 mg/m3

C12-C18-ALKYL [(ETHYLPHENYL)METHYL] DIMETHYL AMMONIUM CHLORIDES (68956-79-6)

Specific Ingredient Data: No data available.

AMMONIA (7664-41-7)

LD50 (rat, oral): 350 mg/kg

LC50 (rat, inhalation/4 hours): 2000 ppm

PIN (Product Identification Number): 1005

Ontario TWAEV: 25 ppm 17 mg/m3

Ontario STEV: 35 ppm 24 mg/m3

ACGIH TLV-TWA: 25 ppm 17 mg/m3

ACGIH TLV-STEL: 24 mg/m3 35 ppm

BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES (68391-01-5)

Specific Ingredient Data: No data available.

9 Physical and Chemical Properties

Physical form, Color, Odour:	liquid; clear; alcohol odour;
Odour Threshold:	No data available.
pH:	Unknown
Boiling point/boiling range:	84.4 C
Melting point/melting range:	Unknown
Vapour pressure:	39 mmHg at 20 degrees Celcius (Room Temperature).
Water Solubility:	100 % at 25 C
Partition coefficient (K o/w):	No data available.
Specific gravity:	0.957 g/cc at 25 C
Vapour density:	> 1 Air=1
Volatile organic compounds:	Unknown
Evaporation rate:	> 1.0 BuOAc=1

Viscosity: Unknown

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

Hazardous Decomposition:

Carbon monoxide and carbon dioxide;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Effects from Skin Contact:

Practically Non-toxic by Skin Contact. Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

Effects from Inhalation:

Practically Non-toxic by Inhalation. Low Blood Pressure: signs/symptoms can include dizziness and fainting. Arrhythmia: signs/symptoms can include palpitations, pounding, or irregular pulse. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Effects from Ingestion:

Swallowing a relatively large amount of this material is unlikely to produce serious illness or death. Low Blood Pressure: signs/symptoms can include dizziness and fainting. Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces. Arrhythmia: signs/symptoms can include palpitations, pounding or an irregular heart beat. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions. Irritation of the Oral Mucosa: signs/symptoms can include bleeding, redness, swelling, and pain of the gums. Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

Sensitization Information:

No data available.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

12 Ecological Information

Ecotoxicity Data:

No data available.

13 Disposal Considerations

Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

Allow pad to dry; Dispose of waste product in a sanitary landfill.

14 Transportation Information

Transportation of Dangerous Goods

TDG Classification: Non-Regulated Material
International Dangerous Goods Classification

IMO Class: No data available.
ICAO Class: No data available.

15 Regulatory Information

WHMIS Classification: B2, D2B

NOTE:

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.

16 Other Information

Reason for Reissue:

MSDS review, no information has changed

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