

6526: CIRCUIT BOARD CLEANER**6526-1: CIRCUIT BOARD CLEANER****MSDS Last updated: 10/11/1995**

MATERIAL SAFETY DATA SHEET

PART NO. 6526, 6526-1
 PRODUCT NAME: CIRCUIT BOARD CLEANER NFPA 30B RATING 1

| | | | |
|---------------|---|----------------|---|
| NFPA RATING: | | HMIS RATING: | |
| HEALTH: | 2 | HEALTH: | 2 |
| FLAMMABILITY: | 3 | FLAMMABILITY: | 3 |
| REACTIVITY: | 0 | REACTIVITY: | 0 |
| SPECIAL: | | PERSONAL PROT: | |

*****SECTION I*****

MANUFACTURER'S NAME: IMPERIAL, INC.
 MANUFACTURER'S ADDRESS: 789 PACKER DRIVE
 CITY, STATE, ZIP: GREEN BAY, WI. 54304
 INFORMATION TELEPHONE
 NUMBER: 800-558-2808
 EMERGENCY TELEPHONE
 NUMBER: 800-255-3924 (CHEM-TEL)
 DATE CHANGED: MARCH 22, 1999

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFO

HAZARDOUS COMPONENTS:

| INGREDIENTS | CAS# | % BY WT | ACGIH TLV | OSHA PEL UNITS | STEL |
|------------------------------|-----------|---------|-----------------|----------------|------|
| 1,1 DICHLORO-1-FLUOROETHANE* | 1717-00-6 | 80-90 | NOT ESTABLISHED | | |
| 2-ISOPROPANOL | 67-63-0 | 1-10 | 400 | 400 ppm | 500 |
| CARBON DIOXIDE | 124-38-9 | 1-10 | 5000 | 5000 ppm | 3000 |

SECTION III

PHYSICALDATA

PRODUCT WEIGHT: 10.06 lb./gal
 EVAPORATION RATE: >1
 SPECIFIC GRAVITY: 1.21
 VAPOR DENSITY: HEAVIER THAN AIR
 VAPOR PRESSURE: 85
 BOILING POINT: 90-180 F
 MELTING POINT: N.A.
 VOLATILE VOLUME: 100%
 SOLUBILITY IN WATER: N.A.
 VOLATILE WEIGHT: 3.00 % (LESS FEDERALLY EXEMPT SOLVENTS)
 SOLUBILITY: NIL
 APPEARANCE: CLEAR
 ODOR: ETHEREAL
 PH: N.A.
 NFPA 30B LEVEL: 1

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED):

LEL:
 UEL:

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERRED. WATER MAY BE USED TO COOL CLOSED

PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

SECTION V

HEALTH HAZARD DATA

ROUTES OF EXPOSURE: EXPOSURE MAY BE BY INHALATION AND/OR SKIN OR EYE CONTACT, DEPENDING ON CONDITIONS OF USE. TO MINIMIZE EXPOSURE, FOLLOW RECOMMENDATIONS FOR PROPER USE, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT.

ACUTE HEALTH HAZARDS
EFFECTS OF OVEREXPOSURE: IRRITATION OF EYES, SKIN AND RESPIRATORY SYSTEM. MAY CAUSE NERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

SIGNS AND SYMPTOMS OF
OVEREXPOSURE: HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS. REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS
AGGRAVATED BY EXPOSURE: NONE GENERALLY RECOGNIZED.

EMERGENCY AND FIRST AID
PROCEDURES:
INHALED: IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET.
SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE RE-USE.
EYES: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
SWALLOWED: GET MEDICAL ATTENTION

CHRONIC HEALTH HAZARDS: NO INGREDIENT IN THIS PRODUCT IS AN IARC, NTP OR OSHA LISTED CARCINOGEN. PROLONGED OVEREXPOSURE TO SOLVENT INGREDIENTS IN SECTION II MAY CAUSE ADVERSE EFFECTS TO THE LIVER AND URINARY SYSTEMS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

SECTION VI

REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: NONE KNOWN
INCOMPATIBILITY: NONE KNOWN
HAZARDOUS DECOMPOSITION
PRODUCTS BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE
MATERIAL IS RELEASED OR
SPILLED: REMOVE ALL SOURCES OF IGNITION. VENTILATE AND REMOVE WITH INERT ABSORBENT.

WASTE DISPOSAL METHOD: WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261. WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA HAZARDOUS WASTE NUMBERS. DO NOT INCINERATE. DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING POLLUTION.

SECTION VIII

PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN
IN USE: USE ONLY WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR AND SPRAY MIST. AVOID CONTACT WITH SKIN AND EYES. WASH HANDS AFTER USING.

VENTILATION: LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION II IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS.

IT IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION: IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION II.

PROTECTIVE GLOVES: NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

SECTION IX *** PRECAUTIONS***

DOL STORAGE CATEGORY: 1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP AREA VENTILATED - DO NOT SMOKE - EXTINGUISH ALL FLAMES, PILOT LIGHTS, AND HEATERS - TURN OFF STOVES, ELECTRIC TOOLS AND APPLIANCES, AND ANY OTHER SOURCES OF IGNITION. CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE, OR EXPOSE TO TEMPERATURE ABOVE 120 F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT WATER, AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHAILING THE CONTENTS CAN BE HARMFUL OR FATAL.

SECTION X ***OTHER REGULATORY INFORMATION***

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

| CAS NO. | CHEMICAL/COMPOUND | % BY WT | % ELEMENT |
|-----------|------------------------------|---------|-----------|
| 1717-00-6 | 1, 1-DICHLORO-1-FLUOROETHANE | 94 | |

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