

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name 781(blue and red), 784 (blue, red and transparent), 787(blue)
Product Description Silicone Adhesive Tape
Manufacturer/Supplier Berry Plastics Corporation, Tapes and Coatings Division
Address 25 Forge Parkway
 Franklin, MA 02038
Phone Number (800) 248-7659 (Monday – Friday 8:00 am to 5:00 pm)
Chemtrec Number (800) 424-9300
Revision Date: March 10, 2008
MSDS Date: August 16, 2007

Safety Data Sheet according to EC directive 2001/58/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards
 Not classified as hazardous.

Routes of Entry

- Inhalation - Skin contact

Carcinogenic Status

For 787 blue: See section 11.

For 781 and 784 products: Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

- Skin – Central Nervous System – Reproductive – Liver – Kidney

Health Effects - Eyes

Contact may cause irritation due to mechanical abrasion.

Health Effects - Skin

Material may cause irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Material can be absorbed through the skin and cause effects similar to those resulting from inhalation.

Prolonged, repeated contact with adhesive may cause allergic sensitization.

Health Effects - Ingestion

Not an expected route of entry during normal handling and use.

Health Effects - Inhalation

Exposure to vapor may have the following effects:

- irritation of nose, throat and respiratory tract - central nervous system depression - dizziness - drowsiness - headache - mental confusion – irregular heartbeat

Repeated or prolonged exposure to vapor at high concentrations may have the following effects:

- nervous system damage - liver damage - kidney damage – adverse reproductive effects – disturbances to heart rhythm

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Silicones	N.A.	<65%	None	None
Toluene	108-88-3 203-625-9	<1.5%	R11, R38, R48/20, F, Xn R63, R65, R67	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Xylene	1330-20-7 215-535-7	0.1-1.0%	R10, R20/21, R38	Xn
Inorganic Compound(s)	N.A.	<25%	None	None
Dibenzoyl Peroxide	94-36-0 202-327-6	<3%	R2, R36, R43	E, Xi
Quartz (787 blue only)	14808-60-7/ 238-878-4	<0.2%	None	None

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.

Ingestion

Obtain medical attention immediately.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Water spray, carbon dioxide and dry chemical.

Unusual Fire and Explosion Hazards

May release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

No specific measures necessary. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Keep away from heat and sources of ignition. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Silicones

None established

Toluene

ACGIH: TLV 20 ppm (75mg/m³) 8hTWA.

OSHA: PEL 200 ppm 8h TWA, Ceiling (C) 300 ppm, 500ppm 10-min peak per 8-hr shift

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Xylene

ACGIH: TLV 100 ppm (434 mg/m³) 8h TWA. 150 ppm (651 mg/m³) STEL
OSHA: PEL 100 ppm (435 mg/m³) 8h TWA

Dibenzoyl Peroxide

ACGIH: TLV 5 mg/m³ 8h TWA.
OSHA: PEL 5 mg/m³ 8h TWA

Quartz (787 blue only)

ACGIH TLV for Quartz (silica-crystalline) is 0.025 mg/m³ measured as respirable fraction of the aerosol

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Respiratory protection not normally required.

Hand Protection

Not required under normal conditions of use. However, care should be taken to avoid contact with the adhesive.

Eye Protection

Safety glasses

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Silicone pressure sensitive adhesive film coated on a polymer backing. 784 products are interleaved with silicone release coated polymer liner.
Color	Clear backing, red, blue or translucent adhesive with clear liner
Odor	Slight solvent
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not known
Explosion Limits (%)	No data available
Vapor Pressure	Not applicable
VOC (g/l)	<30 g/l
VOC (% by weight)	<2%
Density	No data.
Solubility in Water	Not known
Vapor Density (Air = 1)	Not applicable

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

- Heat - High temperatures

Materials to Avoid

Strong acids – bases – oxidizers – reducing agents – amines

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

- oxides of carbon – silicon dioxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Toluene: Oral LD50 rat >2,000 mg/kg. Dermal LD50 rabbit >3,000 mg/kg

Xylene: Oral LD50 rat 4,300 mg/kg. Dermal LD50 rabbit >4,300 mg/kg

Chronic Toxicity/Carcinogenicity

For 787 blue only:

For “inhalable” crystalline silica (quartz): IARC Overall Evaluation is 1 (carcinogenic to humans), the quartz in this formulation is in an adhesive matrix and is not expected to be “inhalable”

Genotoxicity

This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity

Toluene: In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals exposed during pregnancy. Toluene has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.

Xylene: In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals exposed during pregnancy.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

The product may be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data Not Regulated

UN Proper Shipping Name Not Regulated

UN Class None.

UN Number None.

UN Packaging Group None.

Classification for AIR Transportation (IATA) Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

EC Annex I Classification

According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases

None.

S phrases

None.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**TSCA Listing**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

DSL (Canadian) Listing

All ingredients in this product have been verified for listing on the Domestic Substance List (DSL).

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law:

All products: toluene(108-88-3)<1.5% - Xylene(1330-20-7) <1.0% - dibenzoyl peroxide (94-36-0) <3%

781 and 784 red only: Methyl Ethyl Ketone(78-93-3) < 0.8%

781, 784, 787 blue only: trace quantities of arsenic, cadmium, chromium, nickel, ethylene oxide

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List:

All products: toluene(108-88-3)<1.5% - Xylene(1330-20-7) <1.0% - dibenzoyl peroxide (94-36-0) <3%
- ethylbenzene (100-41-4) <0.05% - benzoic acid (65-85-0) <0.02%

781 and 784 red only: Methyl Ethyl Ketone(78-93-3) < 0.8%

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List:

All products: toluene(108-88-3)<1.5% - Xylene(1330-20-7) <1.0% - dibenzoyl peroxide (94-36-0) <3%

781 and 784 red only: Methyl Ethyl Ketone(78-93-3) < 0.8% - resin acids and rosin acids, calcium salts (9007-13-0) <0.2%

787 blue only: crystalline silica (14808-60-7) <0.2%

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: toluene(108-88-3)<1.5% - ethylbenzene (100-41-4) <0.05%

781, 784, 787 blue only: trace quantities of arsenic, cadmium, chromium, nickel, ethylene oxide, 1,4 dioxane, benzene

SARA Title III Sect. 311/312 Categorization

Immediate (acute), Delayed (Chronic) Health Hazard

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Toluene (108-88-3) < 1.50% - dibenzoyl peroxide (94-36-0) <3%

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 0
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations

N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
Xi: Irritant
E: Explosive
F: Flammable
R: Risk
R2 Risk of explosion by shock, friction, fire or other sources of ignition.
R10 Flammable
R11 Highly flammable
R20/21: Harmful by inhalation and in contact with skin
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.
S: Safety
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient

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