
MATERIAL SAFETY DATA SHEET

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MSDS ID: CC915

Revised 5/08/00

CHEM-CALK 915 ALL COLORS

BOSTIK INC.

Replaces 2/24/00
-----SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS NUMBER: CC915

PRODUCT NAME: CHEM-CALK 915 ALL COLORS

CHEMICAL FAMILY: Polyurethane adhesive/sealant

COMPANY:

Bostik Inc.

211 Boston St.

Middleton, MA 01949

EMERGENCY RESPONSE NUMBERS:

Transportation:

In case of emergency, Call:

800-227-0332

Product Safety and Environmental:

978-777-0100
-----SECTION 2 - INGREDIENT AND EXPOSURE LIMIT INFORMATION

COMPONENT	CAS NUMBER	WT PERCENT*	OEL**	OSHA PEL
4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)	101-68-8	.1 to 1%	0.005 ppm	Not Listed
ETHYL BENZENE	100-41-4	.5 to 1.5%	100 ppm	100 ppm
XYLENE	1330-20-7	5 to 10%	100 ppm	100 ppm

* If the total percentage is less than 100, the balance of this product is not considered to be hazardous as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

** The Bostik recommended Occupational Exposure Limit (OEL) value represents the lower of the US OSHA PEL, ACGIH TLV, or Manufacturer's Recommended Limit.

N/A = Not Available, N/D = Not Determined

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH CONSIDERATIONS

HMIS HAZARD RATING

Health: 2

Flammability: 2

Reactivity: 0

Protection: G

Note: Numeric Hazard Ratings are intended only to indicate the relative hazard of the product. Users must read and understand the entire Material Safety Data Sheet prior to use of this product.

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASS --
B3 - Combustible Liquid
D2B - Other Toxic Effects, Skin and Eye Irritant
D2B - Other Toxic Effects, Skin Sensitization

LIKELY ROUTES OF ENTRY
Contact, Inhalation.

TARGET ORGANS
Skin, Eyes, Lungs.

POTENTIAL IMMEDIATE EFFECTS FROM OVEREXPOSURE

CONTACT, SKIN and EYE
Ingredient causes skin and eye irritation, causing a rash or reddening on contact. May cause allergic skin reaction, skin sensitization and/or dermatitis.

SKIN ABSORPTION
Absorption of excessive amounts of solvents may lead to headaches, dizziness or other systemic effects.

INHALATION
Hazardous if inhaled. Inhalation may lead to systemic and local effects such as irritation of throat and mucous membranes, dizziness, headaches.

INGESTION
Toxic when ingested. Causes gastrointestinal discomfort and vomiting.

SYMPTOMS OF OVEREXPOSURE
Irritation, headache, dizziness, giddiness, lightheadedness, drowsiness, lethargy, breathing difficulty, chest pain, coughing, dry skin, abdominal pain, cramps, nausea, vomiting.

POTENTIAL LONG-TERM EFFECTS FROM OVEREXPOSURE:

CANCER INFORMATION
None of the ingredients in this product exceeding 0.1% are on the IARC, NTP, or OSHA lists of carcinogenic hazards.

CHRONIC EFFECTS
Long-term overexposure to the hazardous materials in this product may lead to headaches, loss of appetite, memory and concentration problems, low blood cell count, eye damage, nausea, liver and kidney damage, dryness and cracking of skin and sensitization. Some solvents have been shown to cause hazardous reproductive effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Asthma and dermatitis. Previously sensitized individuals may have an allergic reaction.

NOTES TO MD AND OTHER HEALTH RELATED INFORMATION

Treat symptomatically and supportively. Contact Bostik to learn if any additional information is available.

SECTION 4 - FIRST AID MEASURES

CONTACT, SKIN AND EYE

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids. Seek medical attention.

SKIN: Quickly remove contaminated clothing. Immediately wash contaminated skin with large amounts of soap and water. Seek medical attention if irritation or rash or other symptoms develop.

INHALATION

Remove victim to fresh air. Begin rescue breathing if breathing has stopped. Transfer to a medical facility.

INGESTION

DO NOT INDUCE VOMITING. IMMEDIATELY call a hospital or poison control center. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical. If the victim is convulsing or unconscious DO NOT give anything by mouth, ensure that the victim's airway is open and lay victim on his/her side with the head lower than the body. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABILITY DATA

FLASH POINT	DEG F:	119
	DEG C:	48
LOWER EXPLOSIVE LIMIT	%:	1.0 (Xylene)
UPPER EXPLOSIVE LIMIT	%:	7.0 (Xylene)
AUTOIGNITION POINT	DEG F:	924 (Xylene)
	DEG C:	496 (Xylene)

FIRE AND EXPLOSION HAZARDS:

This product is classified as a COMBUSTIBLE LIQUID. Containers may explode in a fire. Toxic gases may be produced in a fire.

DUST EXPLOSION HAZARD:

This product does not present a dust explosion hazard under known conditions of use.

SENSITIVITY TO MECHANICAL IMPACT:

This product does not present a mechanical impact hazard under known conditions of use.

SENSITIVITY TO STATIC DISCHARGE:

This product does not present a static discharge hazard under known conditions of use.

EXTINGUISHING MEDIA:

Use water spray, foam, dry chemical or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS:

Hazardous gases produced in a fire may include oxides of carbon and nitrogen, hydrogen cyanide and various hydrocarbons.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES

Scrape up polyurethane and deposit into containers for disposal.

HEALTH CONSIDERATIONS AND PROTECTIVE EQUIPMENT

Follow the guidelines of 29CFR 1910.120 for dealing with a spill of any size. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill, including the material spilled, the quantity of the spill and the area in which the spill occurred. Never exceed any occupational exposure limits and consider that the evaporation of volatile solvents can lead to the displacement of air creating an environment that can cause asphyxiation.

SECTION 7 - HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS

This product is COMBUSTIBLE. Store in a cool, dry area out of direct sunlight. Store away from all sources of ignition. Use only in well ventilated areas. Avoid skin and eye contact.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION CONTROLS

Ventilation must maintain vapors below the PEL/TLV exposure limits. Local exhaust is preferred, but general ventilation may be acceptable to meet exposure limits.

RESPIRATORY PROTECTION

Not normally required. However, where the potential exists to exceed

the PEL or TLV, use a MSHA/NIOSH approved full faceplate respirator with an organic vapor cartridge/canister. Increased protection is provided by full facepiece powered air purifying respirators.

EYE PROTECTION

Safety glasses are recommended.

SKIN PROTECTION

Avoid skin contact. Wear chemical resistant gloves and clothing. Safety equipment suppliers/manufacturers can provide recommendations on the most protective glove/clothing material for your operation.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: A thick, colored paste with a solvent odor.
SPECIFIC GRAVITY: 1.36 (Water = 1)
DENSITY: 11.36 lb/gal
SOLUBILITY IN WATER: 0.0%
PERCENT VOLATILE (WEIGHT): 7.3
VOLATILE ORGANIC COMPOUND: 106 g/l (0.89 lb/gal)
VAPOR PRESSURE: 5.1
pH: N/A
BOILING POINT: N/D
VAPOR DENSITY: 3.7
EVAPORATION RATE: N/D
FREEZING POINT: N/D
ODOR THRESHOLD: N/D
OCTANOL/WATER COEFFICIENT: N/D

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Product is stable under normal temperature and pressure.

HAZARDOUS POLYMERIZATION

Not likely to occur. However, curing of product releases carbon dioxide. If curing occurs inside a closed container, pressure buildup may result.

CONDITIONS TO AVOID

Avoid contact with Strong Oxidizers, Strong Alkalis, Strong Acids, Alcohols, Water.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE (SHORT-TERM) TOXICITY

Component	LD50, Oral	LD50, Dermal	LC50, Inhalation
MDI	>10000 mg/kg, mouse	N/A	178 mg/M3, rat

ETHYL BENZENE	3500 mg/kg, rat	N/A	>4000 ppm, rat
XYLENE	4300 mg/kg, rat	N/A	5000 ppm, rat

CHRONIC (LONG-TERM) TOXICITY AND OTHER INFORMATION

Chronic overexposure can cause reproductive problems, reduced fertility, low blood cell count, drying and cracking of skin, headache, loss of appetite, nausea, liver and kidney damage, sensitization, asthma and reduced lung function and possible central nervous system damage.

SECTION 12 - ECOLOGICAL INFORMATION

Organic solvents produce slight to moderate toxicity to aquatic life. Insufficient data exists to evaluate the effect on plants, birds or land animals.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and Local rules. Be aware that State and Local requirements may differ widely depending on location and may in many cases be different from Federal rules.

SECTION 14 - TRANSPORT INFORMATION

DOT/TDG/IATA/IMDG PROPER SHIPPING NAME

Not regulated as a hazardous material.

SECTION 15 - REGULATORY INFORMATION

SARA TITLE III -- THE FOLLOWING COMPONENTS ARE LISTED UNDER SECTION 313:

CAS NUMBER	CHEMICAL NAME
100-41-4	ETHYLBENZENE
1330-20-7	XYLENE (MIXED ISOMERS)

CALIFORNIA PROPOSITION 65 --

CHEMICALS SHOWN BELOW WHICH ARE NOT LISTED IN SECTION II ARE PRESENT AT TRACE LEVELS BELOW THOSE CONSIDERED HAZARDOUS BY OSHA.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

CAS NUMBER	CHEMICAL NAME
No Components Listed.	

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA AS DEVELOPMENTAL HAZARDS:

No Components Listed.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA AS MALE REPRODUCTIVE HAZARDS:

No Components Listed.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA AS FEMALE REPRODUCTIVE HAZARDS:
No Components Listed.

TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY STATUS --

All the components of this product are either listed on the TSCA Chemical Substance Inventory or are exempted from listing.

CANADIAN DOMESTIC SUBSTANCE LIST STATUS --

All components of this product are listed in either the Canadian Domestic Substances List (DSL) or Non-domestic Substances List (NDSL).

EUROPEAN UNION EINECS LIST STATUS --

All components of this product are listed on the EINECS Inventory, or exempt from listing under the Polymer Exemption Provision.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

SECTION 16 - OTHER INFORMATION

PREPARED BY: Michael S. Fine

IMPORTANT NOTICE: All statements, technical information and recommendations set forth herein are based on information or tests which BOSTIK believes to be reliable. However, BOSTIK cannot guarantee their accuracy or completeness. The buyer should conduct his own tests of this product before use to determine proper preparation technique and suitability for the proposed application. BOSTIK's sale of this product is limited to the terms and conditions set forth on BOSTIK's order acknowledgement.

To summarize, BOSTIK's only warranty is that the product conforms with its written specifications, and is free from defects under normal usage; and BOSTIK's only obligation for non-compliance with this warranty is to replace the product or refund the buyer's purchase price. BOSTIK DISCLAIMS THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no case will BOSTIK be liable for direct, consequential, economic or other damage except for the replacement or refund as set forth above.