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## The following Bostik, Inc. product

# L7132K (ADH 7132K)

is a kit, comprised of the following two components:

# BOSC24T (BOSCODUR 24T) L7132R (ADH 7132R)

The Material Safety Data Sheets for the two components follow this cover sheet.

Bostik, Inc. Regulatory Affairs



## MATERIAL SAFETY DATA SHEET

## **1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product name Product name(s) covered MSDS name CAS number Generic description Manufacturer	BOSC24T See Section 16 for Product Names Covered. BOSCODUR 24T LB Mixture Solvent Based Adhesive Bostik, Inc.
Manufactures	211 Boston Street Middleton, MA 01949 USA
24 hour emergency assistance	Telephone: 1-800-227-0332
General assistance	Telephone: 1-978-777-0100
MSDS assistance	Telephone: 1-978-750-7208

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Toluene	108-88-3	30 - 60
Methylene Diphenyl Isocyanate (MDI)	101-68-8	15 - 40
Polymethylene Polyphenylene Isocyanate	9016-87-9	15 - 40
Benzene	71-43-2	0 - 0.1

## **3. HAZARDS IDENTIFICATION**

Emergency overview	Liquid and vapors are flammable. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion will cause nausea, vomiting, pain, upset stomach, and diarrhea. Thermal decomposition/burning may produce toxic gases and fumes. Closed containers may rupture when exposed to high temperatures, or when the product has been contaminated with water.
	Avoid breathing hot mists and vapors. This product contains a respiratory and skin sensitizer. Causes respiratory tract irritation and may cause allergic respiratory reaction. May cause permanent respiratory damage. Product vapors are potentially irritating to skin. May cause allergic skin reaction and dermatitis.
Potential health effects	
Skin	This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin. Isocyanates may react with skin protein and moisture to cause itching, reddening, swelling, scaling or blistering. Individuals previously sensitized to this material may experience these symptoms from exposure to very small amounts of liquid or vapor.
Eyes	Liquid or vapors may irritate the eyes. Prolonged or repeated contact may worsen irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May lead to permanent damage if not treated promptly. May cause temporary corneal injury.
Inhalation	This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. Single large does, and/or repeated exposures, may lead to sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms), causing an individual to experience adverse effects at exposure levels well below exposure limits or guidelines. Symptoms may include chest tightness, wheezing, shortness of breath, coughing or asthmatic attack, and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening. Once sensitized, an individual may experience adverse symptoms upon exposure to dust, cold air or other irritants. Sensitization can last several months, years or be permanent in some cases.
Ingestion	This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation and corrosive action in the mouth, throat and digestive tract.
Target organs	Lungs, skin and eyes. The lungs and skin may be targeted and damaged by components of this product.
Material name: BOSC24T	MSDS

Material name: BOSC24T

Material ID: 41711 Version #: 06 Revision date: 28-JUL-2006 Print date: 28-JUL-2006

Signs and symptoms of overexposure

**Hazard statements** 

Signs and symptoms of overexposure to this product include headache, irritation of upper respiratory tract, asthmatic symptoms, chest tightness, breathing difficulty, coughing, sore throat, eye irritation, skin irritation and/or diarrhea.

This product contains Methylene Diphenyl Isocyanate (MDI) which is a potential skin sensitizer and has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity. Risk to your health depends on duration and concentration of exposure.

### **4. FIRST AID MEASURES**

First aid	
Skin	Remove contaminated clothing to prevent further skin exposure and dispose of properly. In situations involving considerable skin contact, place the contaminated person in a deluge shower for at least 15 minutes. For minor exposures, wash thoroughly with soap and clean water. Get medical attention if irritation persists. For severe exposure, immediately get under a safety shower and begin rinsing.
Eye	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.
Inhalation	Move person to non-contaminated air. Call a physician if symptoms develop or persist. Administer oxygen or artificial respiration as needed.
Ingestion	If the material is swallowed, get immediate medical attention or advice Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Notes to physician	This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately. If overexposure to the solvents in this product is suspected, testing should include nervous system and brain effects including recent memory, mood, concentration, headaches and altered sleep patterns. Liver and kidney function should be evaluated.
	Eyes: Stain for evidence of corneal injury. If cornea is burned, apply antibiotic/steroid preparation as needed.
	Skin: This product contains a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.
	Ingestion: Treat symptomatically.
	Inhalation: This material contains a known pulmonary sensitizer. Any individual experiencing dermal or pulmonary sensitization should be removed from exposure to any diisocyanate. May aggravate existing heart conditions, particularly those with abnormal heart rhythms.
5. FIRE FIGHTING I	MEASURES
Hazardous combustion	Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide and

Hazardous combustion products	Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide and isocyanate-containing compounds.
Extinguishing media	Use dry chemical, carbon dioxide, or foam. Use water spray on large fires. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity.
Basic fire fighting procedures	Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.
Sensitivity to mechanical impact	None Known
Sensitivity to static discharge	Sparks generated by static discharge may ignite this product or its vapors. All containers and equipment must be bonded or grounded to minimize risk.
Unusual fire & explosion hazards	During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. Vapors may be heavier than air and may travel long distances along the ground before igniting back to vapor source. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.
Fire fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Firefighters should wear NFPA compliant structural fire fighting protective equipment, including a self-contained breathing apparatus, helmet, hood, boots and gloves. Avoid contact with isocyanates. During a fire, isocyanate vapors and other irritating and highly toxic gases may be produced.
Flash point	41 °F (5 °C)

## 6. ACCIDENTAL RELEASE MEASURES

Emergency action	Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up.
Containment	Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Liquid spills: Cover spills with absorbent clay or sawdust and collect material in open container and neutralize with a solution containing 2% liquid detergent, 3% concentrated ammonium hydroxide and 95% water. Wash spill area clean with the neutralization solution. Remove container to a safe place, cover loosely and allow to stand for 24 to 48 hours letting evolved carbon dioxide escape. Pellet or chip spill: Collect and contain for salvage or disposal. Molten adhesive spill: Placard hot material, allow to cool and remove. Collect and contain for salvage or disposal.
Reporting	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

## 7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

For Commercial Use Only Thorn ackaged of Eabled for Home Cool.		
Handling	Keep this product from heat, sparks, or open flame. Avoid getting this material into contact with your skin and eyes. Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use. Do not reuse the empty container. Do not breathe vapors, mists or dusts. Do not breathe fumes generated when the material is overheated or burned. Use adequate ventilation. Wear respiratory protection if the material is heated, sprayed, used in a confined space or if exposure limit is exceeded. This product can produce asthmatic sensitization. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must avoid fumes from this product. Wear appropriate protective equipment to avoid contact with skin and eyes.	
Storage	Keep the container tightly closed and in a cool, well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. All containers must be bonded or grounded to minimize risk.	
Empty container precaution	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur. Do not heat or cut empty container with electric or gas torch.	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits. Explosion proof exhaust ventilation should be used.
Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Contact lenses should not be worn.
Skin and body protection	Impervious gloves should be used at all times when handling this product. Recommended gloves include rubber, neoprene, nitrile or viton. Use of protective coveralls and long sleeves is recommended.
Respiratory protection	Avoid breathing vapor and/or mists. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.
General	Evewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

**Exposure limits** 

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

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Benzene Methylene Diphenyl Isocyanate (MDI) Toluene NIOSH - Pocket Guide - TWAs	71-43-2 <u>0.5 ppm TWA</u> 101-68-8 <u>0.005 ppm TWA</u> 108-88-3 <u>50 ppm TWA</u>
Benzene Methylene Diphenyl Isocyanate (MDI) Toluene OSHA - Final PELs - Time Weighted Averages	71-43-2 0.1 ppm TWA 101-68-8 0.005 ppm TWA; 0.05 mg/m3 TWA 108-88-3 100 ppm TWA; 375 mg/m3 TWA (TWAs)
Benzene Toluene OSHA - Vacated PELs - Ceilings	71-43-2 <u>10 ppm TWA (apply only to exempt industry segments)</u> 108-88-3 <u>200 ppm TWA</u>
Benzene Methylene Diphenyl Isocyanate (MDI) OSHA - Vacated PELs - TWAs	71-43-2 <u>25 ppm Ceiling (unless specified in 1910.1028)</u> 101-68-8 <u>0.02 ppm Ceiling: 0.2 mg/m3 Ceiling</u>
Benzene Toluene	71-43-2 <u>10 ppm TWA (unless specified in 1910.1028)</u> 108-88-3 <u>100 ppm TWA; 375 mg/m3 TWA</u>

## 9. PHYSICAL & CHEMICAL PROPERTIES

pН	N/A
Density	1.04 g/cc
Odor	Aromatic
Color	Brown
Physical state	Liquid
Freeze protect	No
VOC (Volatile Organic Compounds)	3.82 lbs/gal

## **10. STABILITY & REACTIVITY**

If product is burned carbon monoxide, carbon dioxide, and other unknown products may be Hazardous produced. Additional decomposition products include oxides of nitrogen, amines, hydrogen reactions/decomposition cyanide and isocyanate-containing compounds. products Hazardous polymerization can occur with elevated temperatures or contact with water. Hazardous polymerization Keep away from sources of ignition. Avoid water, amines, strong bases, alcohols and metallic Conditions to avoid hydrides. This product may react with strong acids, bases and oxidizing agents. This product is stable Stability under normal conditions but will react slightly with water to release some heat and carbon dioxide. The reaction is not violent. Carbon dioxide, carbon monoxide and in high temperature (800° F) low oxygen atmospheres such as in fire situations, hydrogen cyanide may be released.

## **11. TOXICOLOGICAL INFORMATION**

Toxicological data LD50	If any toxicological data is available, it will be listed below:
Toxicology Data - Selected Ll	D50s and LC50s
Benzene	71-43-2 Inhalation LC50 Rat: 13050 ppm/4H: Oral LD50 Rat: 690 mg/kg: Dermal LD50 Rabbit: >8260 mg/kg
Methylene Diphenyl Isocyanate Polymethylene Polyphenylene I	
Toluene	108-88-3 Inhalation LC50 Rat: 12.5 mg/L/4H; Inhalation LC50 Rat: >26700 ppm/1H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 8390 mg/kg
Chronic effects	Chronic exposure to solvents can cause reproductive problems, reduced fertility, dryness and cracking of skin, headaches, loss of appetite and nausea.

Carcinogenicity

If this product contains any carcinogens, they will be noted below:

This product contains Methylene Diphenyl Isocyanate (MDI). MDI is not listed by the NTP, IARC or regulated by OSHA as a carcinogen. However, it has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity.

IARC - Group 1 (Carcinogenic to Humans)

 IARC - Group F (Garcinogene to Human)
 71-43-2
 Supplement 7, 1987; Monograph 29, 1982

 NIOSH - Pocket Guide - Potential Occupational Carcinogens
 71-43-2
 potential occupational carcinogen

 Benzene
 71-43-2
 potential occupational carcinogens

 NTP (National Toxicology Program) - Report on Carcinogens - Known Carcinogen

 Benzene
 71-43-2

 NTP (National Toxicology Program) - Report on Carcinogens - Reasonably Anticipated to be Human Carcinogens

 Benzene
 71-43-2

 Reasonably Anticipated to be Human Carcinogens

 Benzene
 71-43-2

 OSHA - Hazard Communication Carcinogens

 Benzene
 71-43-2

 Present

## **12. ECOLOGICAL INFORMATION**

VOC (Volatile Organic3.82 lbs/galCompounds)Organic solvEcotoxicological informationOrganic solv

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

## **13. DISPOSAL CONSIDERATIONS**

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

Waste disposal

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Empty containers must be handled with care due to product residue. Do not heat or cut empty container with electric or gas torch.

#### **14. TRANSPORT INFORMATION**

#### DOT

Basic shipping requirements:	
Proper shipping name	Toluene
Hazard class	3
UN number	UN1294
Packing group	H
Additional information:	
ERG number	128

#### ΙΑΤΑ

Basic shipping requirements:	
Proper shipping name	Toluene
Hazard class	3
UN number	UN1294
Packing group	II





IMDG

18

Basic shipping requirements:	
Proper shipping name	Toluene
Hazard class	3
UN number	UN1294
Packing group	11



## **15. REGULATORY INFORMATION**

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. Federal regulations ---

Federal regulations	All components	are on tr	le U.S. EFA ISCA Inventory List.
CERCLA/SARA - Hazardous Sul	ostances and their	Reportat	ole Quantities
Benzene		71-43-2	<u>10 lb final RQ (receives an adjustable RQ of 10 lbs based on</u> potential carcinogenicity in August 14, 1989 final rule); 4.54 kg final RQ (receives an adjustable RQ of 10 lbs based on potential carcinogenicity in August 14, 1989 final rule)
Methylene Diphenyl Isocyanate (N Toluene CERCLA/SARA - Section 313 - E		108-88 <b>-</b> 3	5000 lb final RQ; 2270 kg final RQ 1000 lb final RQ; 454 kg final RQ
Benzene Methylene Diphenyl Isocyanate (N		71-43-2	0.1 % de minimis concentration 1.0 % de minimis concentration (listed under Chemical
Polymethylene Polyphenylene iso	cyanate	90 <b>16-8</b> 7-	Category N120, Diisocyanates) 9 1.0 % de minimis concentration (listed under Chemical
Toluene CWA (Clean Water Act) - Hazard	ous Substances	108-88-3	<u>Category N120, Diisocyanates)</u> 1.0 % de minimis concentration
Benzene		71-43-2	Present
Toluene			Present
State regulations	If this product connected below:	ontains a	ny ingredients listed under California Proposition 65, they will be
California - Proposition 65 - Car	cinogens List		
Benzene California - Proposition 65 - Dev	elopmental Toxici		carcinogen, initial date 2/27/87
Benzene Toluene California - Proposition 65 - Rep	roductive Toxicity	108-88-3	developmental toxicity, initial date 12/26/97 developmental toxicity, initial date 1/1/91
Benzene		71-43 <b>-</b> 2	male reproductive toxicity, initial date 12/26/97
International regulations	This product ha Products Regula Regulations.	s been cl ations an	assified in accordance with the hazard criteria of the Controlled d contains all the information required by the Controlled Products
	All components	are inclu	ded on the Canadian Domestic Substances List (DSL).
HMIS Ratings	Health: 2* Flammability: 3 Physical hazard Personal protec		
SARA 311/312 HAZARD CATEGORIES	Immediate Hazar Delayed Hazard Fire Hazard - Ye Pressure Hazar Reactivity Haza	l - Yes es d - No	
WHMIS status	Controlled		
WHMIS labeling			

WHMIS classification

92

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B2 - Flammable/Combustible D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

## **16. OTHER INFORMATION**

Disclaimer	The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.
Further information	Any characters following "BOSC24T " are just designations for the various types of packaging that are available for this product. These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the BOSC24T for all of its packaging types.
Issue date	07/28/2006
Prepared by	Pam Larsen
Supercedes	06/23/2006



## MATERIAL SAFETY DATA SHEET

## **1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product name	L7132R
Product name(s) covered	See Section 16 for Product Names Covered.
MSDS name	ADH 7132R LB
CAS number	Mixture
Generic description	Solvent Based Adhesive
Manufacturer	Bostik, Inc. 211 Boston Street Middleton, MA 01949 USA
24 hour emergency assistance	Telephone: 1-800-227-0332
General assistance	Telephone: 1-978-777-0100
MSDS assistance	Telephone: 1-978-750-7208

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Methyl ethyl ketone	78-93-3	30 - 60
Tetrahydrofuran	109-99-9	15 - 40
Toluene	108-88-3	10 - 30

### **3. HAZARDS IDENTIFICATION**

Emergency overview	Liquid and vapors are flammable. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion will cause nausea, vomiting, pain, upset stomach, and diarrhea.
Potential health effects	
Skin	This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin.
Eyes	Liquid or vapors may irritate the eyes. Prolonged or repeated contact may worsen irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May lead to permanent damage if not treated promptly.
Inhalation	This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Ingestion	This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Target organs	Lungs, skin and eyes.
Signs and symptoms of overexposure	Signs and symptoms of overexposure to this product include headache, irritation of upper respiratory tract, asthmatic symptoms, chest tightness, breathing difficulty, coughing, eye irritation, skin irritation, diarrhea.

### **4. FIRST AID MEASURES**

Skin	Remove contaminated clothing to prevent further skin exposure and dispose of properly. In situations involving considerable skin contact, place the contaminated person in a deluge shower for at least 15 minutes. For minor exposures, wash thoroughly with soap and clean
	water. Get medical attention if irritation persists.
Eye	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.
Inhalation	Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.
Ingestion	If the material is swallowed, get immediate medical attention or advice Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Material name: L7132R

Material ID: 45606 Version #: 04 Revision date: 09-AUG-2006 Print date: 09-AUG-2006

Notes to physician

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately. If overexposure to the solvents in this product is suspected, testing should include nervous system and brain effects including recent memory, mood, concentration, headaches and altered sleep patterns. Liver and kidney function should be evaluated.

## **5. FIRE FIGHTING MEASURES**

Extinguishing media	Use dry chemical, carbon dioxide, or foam. Use water spray on large fires. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity.
Basic fire fighting procedures	Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.
Sensitivity to mechanical impact	None Known
Sensitivity to static discharge	Sparks generated by static discharge may ignite this product or its vapors. All containers and equipment must be bonded or grounded to minimize risk.
Unusual fire & explosion hazards	During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. Vapors may be heavier than air and may travel long distances along the ground before igniting back to vapor source. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.
Fire fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Flash point	14 °F (-10 °C)

## 6. ACCIDENTAL RELEASE MEASURES

Emergency action	Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up.
Containment	Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with non-flammable absorbent and place in closed chemical waste containers.
Reporting	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

## 7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

Handling	Keep this product from heat, sparks, or open flame. Avoid getting this material into contact with your skin and eyes. Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use. Avoid breathing vapors or mists of this product. Use this product with adequate ventilation. Do not reuse the empty container.
Storage	Keep the container tightly closed and in a cool, well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. All containers must be bonded or grounded to minimize risk.
Empty container precaution	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur. Do not heat or cut empty container with electric or gas torch.
8. EXPOSURE CONT	ROLS / PERSONAL PROTECTION

Engineering controls	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits. Explosion proof exhaust ventilation should be used.
Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Contact lenses should not be worn.
Skin and body protection	Impervious gloves should be used at all times when handling this product. Recommended gloves include rubber, neoprene, nitrile or viton. Use of protective coveralls and long sleeves is recommended.

#### **Respiratory protection**

Avoid breathing vapor and/or mists. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.

#### General

**Exposure limits** 

Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) 78-93-3 200 ppm TWA Methyl ethyl ketone 109-99-9 <u>50 ppm TWA</u> 108-88-3 <u>50 ppm TWA</u> Tetrahydrofuran Toluene NIOSH - Pocket Guide - TWAs 78-93-3 200 ppm TWA: 590 mg/m3 TWA Methyl ethyl ketone 109-99-9 <u>200 ppm TWA; 590 mg/m3 TWA</u> 108-88-3 <u>100 ppm TWA; 375 mg/m3 TWA</u> Tetrahydrofuran Toluene **OSHA - Final PELs - Time Weighted Averages (TWAs)** Methyl ethyl ketone 78-93-3 200 ppm TWA; 590 mg/m3 TWA 109-99-9 200 ppm TWA; 590 mg/m3 TWA 108-88-3 200 ppm TWA Tetrahvdrofuran Toluene **OSHA - Vacated PELs - TWAs** 78-93-3 200 ppm TWA; 590 mg/m3 TWA Methyl ethyl ketone Tetrahydrofuran 109-99-9 200 ppm TWA; 590 mg/m3 TWA 108-88-3 100 ppm TWA; 375 mg/m3 TWA Toluene

## 9. PHYSICAL & CHEMICAL PROPERTIES

pН	N/A
Density	0.92 g/cc
Odor	Solvent
Color	Amber
Physical state	Liquid
Freeze protect	No
VOC (Volatile Organic Compounds)	75 %

### **10. STABILITY & REACTIVITY**

Hazardous reactions/decomposition products	If product is burned carbon monoxide, carbon dioxide, and other unknown products may be produced.
Hazardous polymerization	Will not occur.
Conditions to avoid	Keep away from sources of ignition.
Stability	Stable under normal conditions. This product may react with strong acids, bases and oxidizing agents.

## **11. TOXICOLOGICAL INFORMATION**

Toxicological data LD50	If any toxicological data is available, it will be listed below:
Toxicology Data - Selected LD5	ios and LC50s
Methyl ethyl ketone	78-93-3 <u>Inhalation LC50 Mouse: 32 g/m3/4H; Oral LD50 Rat: 2600</u> mg/kg; Dermal LD50 Rabbit: 6400 mg/kg
Tetrahydrofuran	109-99-9 Inhalation LC50 Rat: 53.9 mg/L/4H; Inhalation LC50 Rat: 180 mg/L/1H; Oral LD50 Rat: 1650 mg/kg
Toluene	108-88-3 Inhalation LC50 Rat: 12.5 mg/L/4H; Inhalation LC50 Rat: >26700 ppm/1H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 8390 mg/kg
Chronic effects	Chronic exposure to solvents can cause reproductive problems, reduced fertility, dryness and cracking of skin, headaches, loss of appetite and nausea.
Carcinogenicity	If this product contains any carcinogens, they will be noted below:

## **12. ECOLOGICAL INFORMATION**

VOC (Volatile Organic	75 %
Compounds)	

Material name: L7132R

Material ID: 45606 Version #: 04 Revision date: 09-AUG-2006 Print date: 09-AUG-2006

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

### **13. DISPOSAL CONSIDERATIONS**

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

Waste disposal

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Empty containers must be handled with care due to product residue. Do not heat or cut empty container with electric or gas torch.

## **14. TRANSPORT INFORMATION**

Basic shipping requirements:	
Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	ll.
Additional information:	
ERG number	128

#### ΙΑΤΑ

Basic shipping requirements:	
Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	11

#### IMDG

Basic shipping requirements:	
Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	11



## **15. REGULATORY INFORMATION**

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

Federal regulations	All components are on the U.S. EPA TSCA Inventory List.
CERCLA/SARA - Hazardous Su	ibstances and their Reportable Quantities
Methyl ethyl ketone	78-93-3 <u>5000 lb final RQ; 2270 kg final RQ</u> 109-99-9 <u>1000 lb final RQ: 454 kg final RQ</u>
Tetrahydrofuran Toluene	108-88-3 <u>1000 lb final RQ; 454 kg final RQ</u>
CERCLA/SARA - Section 313 -	Emission Reporting
Toluene CWA (Clean Water Act) - Hazar	108-88-3 <u>1.0 % de minimis concentration</u> dous Substances
Toluene	108-88-3 Present
•	rol Act) - Section 12(b) - Export Notification 79-20-9 Section 4
Methyl acetate Methylisobutyl ketone	108-10-1 Section 4 (applies only to those companies that signed an
•	Enforceable Consent Agreement for this chemical) 109-99-9 Section 4
Tetrahydrofuran State regulations	If this product contains any ingredients listed under California Proposition 65, they will be
State regulations	noted below:
California - Proposition 65 - Ca	
Benzene California - Proposition 65 - De	71-43-2 <u>carcinogen, initial date 2/27/87 Trace impurity</u> velopmental Toxicity
Benzene	71-43-2 developmental toxicity, initial date 12/26/97 Trace impurity
Toluene California - Proposition 65 - Re	108-88-3 <u>developmental toxicity, initial date 1/1/91</u>
Benzene	71-43-2 male reproductive toxicity, initial date 12/26/97 Trace impurity
International regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products
HMIS Ratings	Regulations. Health: 2*
niviis kaungs	Flammability: 3
	Physical hazard: 0 Personal protection: X
SARA 311/312 HAZARD	Immediate Hazard - Yes
CATEGORIES	Delayed Hazard - Yes
	Fire Hazard - Yes Pressure Hazard - No
	Reactivity Hazard - No
WHMIS status	Controlled
WHMIS labeling	
WHMIS classification	B2 - Flammable/Combustible
	D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC
16. OTHER INFORM	ATION
Disclaimer	The data in this MSDS has been compiled from publicly available sources. This data relates
	only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.
Further information	Any characters following " L7132R " are just designations for the various types of packaging that are available for this product. These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the L7132R for all of its packaging types.
Issue date	08/09/2006
Prepared by	Pam Larsen
Supercedes	07/28/2006

Material name: L7132R

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Material ID: 45606 Version #: 04 Revision date: 09-AUG-2006 Print date: 09-AUG-2006

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