

**Welcome to  
Hastings Plastics  
Material Safety Data Sheets For Adhesives,  
Glues, and Cements**

<a href="#"><u>GENERAL PURPOSE THERMOPLASTIC CEMENT</u></a>	<a href="#"><u>HABOND 14-5-4</u></a>
<a href="#"><u>CEMENT FOR BONDING NON-PLASTICS</u></a>	<a href="#"><u>HABOND 14-5-5</u></a>
<a href="#"><u>STYRENE CEMENT</u></a>	<a href="#"><u>HABOND 14-5A-1</u></a>
<a href="#"><u>ABS TO ABS CEMENT (HIGH VISCOSITY)</u></a>	<a href="#"><u>HABOND 14-5B-1</u></a>
<a href="#"><u>ABS TO ABS CEMENT ( LOW VISCOSITY)</u></a>	<a href="#"><u>HABOND 14-5B-2</u></a>
<a href="#"><u>ANTI-STATIC CLEANER</u></a>	<a href="#"><u>HABOND 14-7-1</u></a>

Click links to view MSDS

# HASTINGS PLASTICS COMPANY

PRODUCT DATA  
HABOND 14-5-4

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

[Back to Index](#)

## HABOND 14-5-4

### SECTION I - PRODUCT IDENTIFICATION

#### MANUFACTURERS' NAME

- HASTINGS PLASTICS COMPANY

#### PRODUCT INFORMATION AND SALES

- (310) 829-3449

#### EMERGENCY PHONE NUMBER

-(800) 424-9300

#### CHEMICAL FAMILY & NAME

- Mixture of Synthetic Resin and

Organic Solvents

#### TRADE NAME

- Habond 14-5-4

#### FORMULA

- Proprietary

### SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	CAS #	%	TLV	ACGIH		OSHA	
				STEL	PEL	STEL	PEL
SYNTHETIC RESIN	NON/HAZ		N/A			N/A	
METHYL ETHYL KETONE	78-93-3	65**	200 PPM	300 PPM	200 PPM	300 PPM	
HEALTH - 2(HMIS) 1(NFPA)	FLAMMABILITY - 3(HMIS) 3(NFPA)	REACTIVITY - 0(HMIS)					
0(NFPA) EQUIPMENT - H(HMIS)							

\*\*Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.

### SECTION III - PHYSICAL DATA

#### APPEARANCE, COLOR

- Clear, syrupy liquid.

#### ODOR

- Ketone

#### BOILING POINT

- 175.2°F Based on first boiling component: MEK

VAPOR PRESSURE (mmHG) - 71.2 mm HG @ 23°C based on first boiling component MEK  
VAPOR DENSITY (Air = 1) - 2.5  
SPECIFIC GRAVITY @ 73 +/- 2°F - Typical 0.890 +/-0.040  
SOLUBILITY IN WATER - Solvent @ 20°C-Approx. 26.8% Resin Precipitates.  
PERCENT VOLATILE BY VOLUME (%) - Approx. 80 - 85%  
EVAPORATION RATE (BUAC = 1) - Approx. 5.7  
VOC STATEMENT: This cement contains 650 grams of VOC per liter as manufactured.

#### **SECTION IV - FIRE AND HAZARD EXPLOSION DATA**

FLASH POINT, °F - 21°F T.C.C. Based on MEK

EXTINGUISHING MEDIA - Ansul "Purple K" potassium bicarbonate dry chemical, carbon dioxide, National Aer-O-Foam universal alcohol resistant foam, water spray.

FLAMMABLE LIMITS (PERCENT BY VOLUME) - LEL - 1.8 UEL - 11.5

SPECIAL FIRE FIGHTING

PROCEDURES - Evacuate enclosed area, stay upwind. Close or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.

**HABOND 14-5-4**

**MSDS**

**PAGE 2 OF 3**

UNUSUAL FIRE AND EXPLOSION HAZARDS - Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source of ignition.

#### **SECTION V - HEALTH HAZARD DATA**

PRIMARY ROUTE(S) OF ENTRY -  Inhalation  Skin contact  Ingestion  Eye contact.

EFFECTS OF OVEREXPOSURE

##### ACUTE:

INHALATION - Concentrations of 100-300 ppm cause nose and throat irritation. Higher concentrations cause irritation, headache, nausea, drowsiness, dizziness, incoordination.

SKIN CONTACT - Prolonged exposure to liquid or vapors at concentrations greater than the TLV cause moderate irritation and dermatitis.

EYE CONTACT - Liquid and vapors are irritation to eyes. Can cause severe injury - damage reversible.

INGESTION - Moderately toxic. May cause nausea, vomiting and diarrhea.

CHRONIC: - There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects. However, simultaneous over-exposure to MEK and n-Hexane can potentiate the known irreversible neurotoxic effects of n-Hexane. There is no reported human evidence that these neurotoxic effects occur when exposure to both chemicals is maintained below established OSHA and ACGIH limits.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE - This material may aggravate an existing dermatitis. Breathing of vapor and/or mist may aggravate asthma and inflammatory or fibrotic pulmonary diseases.

#### **EMERGENCY AND FIRST AID PROCEDURE**

INHALATION - If overcome by vapors, re-locate to fresh air and if breathing stopped, give artificial respiration-preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call physician.

EYE CONTACT - Immediately flush eyes with plenty of water for 15 minutes and call a physician.

SKIN CONTACT - Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes. If irritation develops, get medical attention.

INGESTION - Do not induce vomiting. Give 1 - 2 glasses of water or milk. Contact physician or poison center immediately.

## **SECTION VI - REACTIVITY DATA**

STABILITY - Stable

CONDITIONS TO AVOID - Keep away from heat, sparks, open flame and other sources of ignition.

INCOMPATIBILITY(MATERIALS TO AVOID) - Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers, and isocyanates.

HAZARDOUS DECOMPOSITION PRODUCTS - (On combustion) Dense smoke containing carbon monoxide, carbon dioxide and hydrogen cyanide.

HAZARDOUS POLYMERIZATION - Will not occur.

CONDITIONS TO AVOID - Keep away from heat, sparks, open flame and other sources of ignition.

## **SECTION VII - SPILL OR LEAK PROCEDURE**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

WASTE DISPOSAL METHOD: Follow local, State and Federal regulations. Consult disposal expert. Can be

**HABOND 14-5-4**

**MSDS**

**PAGE 3 OF 3**

disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing.

## **SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH-approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

VENTILATION: Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

PROTECTIVE GLOVES - PVA Coated or Rubber

EYE PROTECTION - Splashproof chemical goggles

OTHER PROTECTIVE EQUIP - Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

## **SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in the shade between 40°F and 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Train employees on all special handling procedures before they work with this product.

OTHER PRECAUTIONS: Follow all precautionary information given on the container label, product bulletins and our cementing literature. All handling equipment should be electrically grounded.

## **SECTION X - SHIPPING INFORMATION**

D.O.T. HAZARD CLASS - 3

D.O.T.SHIPPING NAME - Methyl Ethyl Ketone

IDENTIFICATION NUMBER - UN 1193

PACKAGING GROUP - II

LABEL REQUIRED - FLAMMABLE LIQUID

**DISCLAIMER OF LIABILITY**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared

By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HABOND 14-5-5  
\*REVISED 8/21/98  
REPLACE 8/12/87

[Back to Index](#)

## HABOND 14-5-5

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY  
EMERGENCY PHONE NUMBER - (800)424-9300  
CHEMICAL FAMILY & NAME - Thermoplastic Cement  
TRADE NAME - Habond 14-5-5  
PRODUCT INFORMATION & SALES - (310)829-3449  
HMIS - HEALTH-1 FLAMMABILITY-3 REACTIVITY-0

### SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV(unit)</u>
TOLUENE	108-88-3	78-80	200 PPM
ACRYLIC POLYMER	not hazardous	20-30	
INDIVIDUAL RESIDUAL MONOMERS	not required	0.25 max	
ETHYL ACRYLATE	140-88-5	0.40 max	

### SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Clear colorless, liquid, aromatic, Benzene like odor.  
BOILING POINT - 64°C / 139°F  
MELTING POINT - No data.  
VISCOSITY - 90 - 300 CPS  
VAPOR PRESSURE (mmHG) - 22 mm Hg. @ 20°C / 68°F  
VAPOR DENSITY (Air = 1) - 3.6  
SPECIFIC GRAVITY (water=1) - 0.96  
SOLUBILITY IN WATER - Practically insoluble  
PERCENT VOLATILE  
(By volume %) - 75 - 80 %  
EVAPORATION RATE  
( BUAC =1) - >1

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

AUTO-IGNITION TEMP - 480°C / 896°F  
EXTINGUISHING MEDIA - Dry Chemical, Carbon Dioxide, Water spray, Polar solvent (alcohol) foam.  
FLAMMABLE LIMITS (% BY VOLUME) - LEL - 1.0 UEL - 7.0  
FLASH POINT, °F - 40°F T.C.C.  
SPECIAL FIRE FIGHTING PROCEDURES - Evacuate enclosed areas. Stay upwind. Close or confined quarters require self-contained breathing apparatus; positive pressure hose or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.

UNUSUAL FIRE AND  
EXPLOSION HAZARDS

- Vapors can travel to a source of ignition and flash back.
- Heated material can form flammable or explosive vapors with air.

**SECTION V - HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE -200 PPM

## INHALATION

- Inhalation of solvent vapors or mist can cause the following:  
irritation of nose, throat, and lungs -headache -nausea -vomiting -dizziness -drowsiness -  
fatigue
- loss of coordination -unconsciousness
- Inhalation of high solvent vapor or mist concentrations can cause the following:  
-coma -death

## EYE CONTACT

- Material can cause the following: -severe irritation -corneal clouding

## SKIN CONTACT

- Material can cause the following: -moderate skin irritation -defatting and drying of the  
skin  
which can lead to irritation and dermatitis

The solvent(s) in this material can be absorbed through intact skin.

## INGESTION

- Material is possibly harmful if swallowed.
- Material can cause the following:  
-gastrointestinal irritation -nausea -vomiting -diarrhea

## DELAYED EFFECTS

- Repeated overexposure to the solvents in this product can cause the following:  
enlarge liver -kidney effects -cardiac sensitization -irritation of the respiratory tract
- Ethyl acrylate is listed by the National Toxicology Program (NTP) and the International  
Agency for Research on Cancer

## EFFECTS OF OVEREXPOSURE

- Severe overexposure may result in nausea, dizziness, headache. Can cause  
narcosis, irritation of eyes and nasal passages. May irritate skin. Normal  
deffating effect of solvents on tissue.

**WARNING**

This product contains a chemical(s) known to the State of California to cause cancer.

**EMERGENCY & FIRST AID PROCEDURE**

## INHALATION

- Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if  
breathing has stopped. Get prompt medical attention.

## EYE CONTACT

- IMMEDIATELY flush eyes with a large amount of water for at least 15 minutes.  
Get prompt medical attention.

## SKIN CONTACT

- Remove contaminated clothing. Wash affected skin area thoroughly with soap and water.  
See a physician.

## INGESTION

- If swallowed, give 2 glasses of water to drink. DO NOT induce vomiting, petroleum distillate  
present. Careful gastric lavage may be indicated. IMMEDIATELY see a physician. Never give  
anything by mouth to an unconscious person.

## NOTE TO PHYSICIAN

- Acute massive exposure to toluene can cause transient hematuria and albumnuria.  
Cardiac arrhythmias can occur after massive inhalation.

**SECTION VI - REACTIVITY DATA**

## STABILITY

- Stable

## CONDITIONS TO AVOID

- Keep away from heat, sparks, open flame and other sources of ignition.  
This liquid is very stable at normal ambient temperatures.

INCOMPATIBILITY	-Avoid contact with strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	-Thermal decomposition may yield acrylic monomers.
HAZARDOUS POLYMERIZATION	-Will not occur.
CONDITIONS TO AVOID	-Keep away from heat, sparks, open flame and other sources of ignition.

### **SECTION VII - TOXICITY INFORMATION**

ACUTE DATA: The following information is based on the toxicity profiles of the most potentially hazardous component(s) of this material.

Toxicity data for component number 4:

Oral LD50-rat:>5000 mg/kg

Dermal LD50-rabbit:>3000 mg/kg

Eye irritation-rabbit:severe irritation

Skin irritation-rabbit:moderate irritation

Inhalation LCLo-rat:4000 ppm for 4 hrs

CARCINOGENICITY DATA: A National Toxicology Program (NTP) study found ethyl acrylate to be an animal carcinogen in a forced ingestion study on mice and rats. In an inhalation study, rodents exposed to ethyl acrylate vapors at 25 and 75 ppm for 27 months showed nonmalignant changes in nasal passage membranes.

REPRODUCTIVE/TERATOLOGY DATA:

Toluene has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.

### **SECTION VIII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large volume of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

WASTE DISPOSAL METHOD - For disposal, incinerate this material at a facility that complies with local, state, and federal regulations.

### **SECTION IX - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION - None required with adequate ventilation. Use NIOSH approved respirator for organic vapors for confined areas, eg., Mine Safety Appliance Cat. #459433

VENTILATION - Use explosion proof local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation:A Manual of

Recommended

Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

- PROTECTIVE GLOVES - Rubber
- EYE PROTECTION - Chemical Goggles
- OTHER PROTECTIVE EQUIP. - Facilities storing or using this material should be equipped with an eye-wash facility and a safety shower.

**SECTION X - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN  
IN HANDLING AND STORING**

-Store in the shade between 40°F and 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation.

**OTHER PRECAUTIONS**

-Follow all precautionary information given on the container label, product bulletin and other cementing literature. All handling equipment should be electrically grounded.

**STORAGE AND HANDLING INFORMATION**

**STORAGE CONDITIONS** -Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Store away from excessive heat (e.g. steam pipes, radiators)

**SECTION XI - SHIPPING INFORMATION**

DOT. SHIPPING NAME - Cement Flammable Liquid

DOT. HAZARD

CLASSIFICATION - Flammable Liquid PGIII

UN 1193

**SECTION XII - REGULATORY INFORMATION**

**WORKPLACE CLASSIFICATION**

This product is considered hazardous under the OSHA Hazard communication Standard (29CFR 1910.12000).

This product is a controlled product under the Canadian Workplace Hazardous Material Information System (WHMIS).

**TRANSPORTATION CLASSIFICATION**

US DOT Hazard Class . . . . . FLAMMABLE LIQUID

The above information applies to the U.S. DOT classification of this material (49 CFR 172.101). Various exemptions and/or restrictions may apply.

**PLANNING & COMMUNITY RIGHT-TO-KNOW**

**SECTION 311/312 CATEGORIZATIONS (40CFR 370)**

This product is a hazardous chemical under 29CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard.

**SECTION 313 INFORMATION (40CFR 372)**

This product contains a chemical which is listed in Section 313 above de minimis concentrations. The following listed chemicals are presented: (Quantity present is found elsewhere on this MSDS.)

- Toluene (108-88-3)
- Ethyl acrylate (140-88-8)

**CERCLA INFORMATION (40CFR 302.4)**

This material has a component or components with a reportable quantity under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Re-authorization Act (SARA) Title III Section 304. The Components, CAS numbers, and reportable quantities are listed below. Spills of a component in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.

Toluene (108-88-3)

Ethyl acrylate (140-8-5) 1000 lbs.

**RCRA INFORMATION**

When a decision is made to discard this material as supplied it is classified as a RCRA hazardous waste with the characteristic of ignitability, Hazardous waste number: D001

**CHEMICAL CONTROL LAW STATUS**

All components of this product are listed or are excluded from listing on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**STATE RIGHT-TO-KNOW LAWS**

Any material listed as "Not Hazardous" in the CAS REG NO column of the COMPONENT INFORMATION Section of this MSDS is trade secret under the provisions of the Pennsylvania Worker and Community Right-To-Know Act.

**CALIFORNIA PROPOSITION 65**

This product contains a component or components known to the state of California to cause birth defects or other reproductive harm:

-Toluene (108-88-3)

This product contains a component or components known to the state of California to cause cancer:

- Ethyl acrylate (140-88-5)

This product contains trace levels of a component or components known to the state of California to cause cancer:

- Benzene (71-43-2)

PARALOID IS A Trademark of Rohm and Haas Company or one of its subsidiaries or affiliates.

**ABBREVIATIONS**

IARC - International Agency For Research and Cancer

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute of Occupational Safety and Health

DOT - Department of Transportation

TLV - Threshold Limit Value

NTP - National Toxicology Program

PEL - Permissible Emission Level

N/AV - Not available

N/AP - Not applicable

N/E - Not established

N/D - Not Determined

**DISCLAIMER OF LIABILITY**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

F#170-21A

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS 14-5A -1  
\*REVISED 05/17/96  
ISSUED 10/03/88

[Back to Index](#)

## HABOND 14-5A-1

SECTION I	-	PRODUCT IDENTIFICATION
MANUFACTURER'S NAME	-	HASTINGS PLASTICS COMPANY
PRODUCT INFO/SALES	-	(310) 829-3449
EMERGENCY PHONE NO.	-	24 hrs (800) 424-9300
CHEMICAL FAMILY	-	Trichloroethylene
FORMULA	-	C <sub>2</sub> HCL <sub>3</sub>
DOT ID NUMBER	-	UN 1710
PRODUCT NAME	-	14-5A-1
MOLECULAR WEIGHT	-	131.38

### SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	%	OSHA PEL	CAS NUMBER	*TRICHLOROETHYLENE
100	100 ppm	79-01-6		

\* Denotes chemical subject to reporting requirements of Section 313 of Title III of the 1988 Superfund Amendments and Authorization Act (SARA) and 40 CFR Part 372.

SECTION III	-	PHYSICAL DATA
ODOR	-	mildly sweet odor
BOILING POINT	-	188°F 86.7°C
VAPOR PRESSURE	-	58 mm Hg @ 20°C
VAPOR DENSITY (AIR=1)	-	4.50
SPECIFIC GRAVITY (H <sub>2</sub> O=1)	-	1.45 @ 25/25°C
APPEARANCE, COLOR	-	Clear, colorless liquid
SOLUBILITY IN WATER	-	0.1 gm/100 gm @ 25°C
VOLUME % VOLATILE	-	100
EVAPORATION RATE (Ether=1)	-	0.3

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F (method used)	-	None (TCC)
FLAMMABLE LIMITS (in air % by volume)	-	8.0% - 10.5% in air @ 25°C
EXTINGUISHING MEDIA	-	Foam, dry chemicals or carbon dioxide
UNUSUAL FIRE AND EXPLOSION HAZARDS	-	Concentrated vapors can be ignited by high intensity energy source. Firefighters should wear self contained positive pressure breathing apparatus due to thermal decomposition of products, and avoid skin contact.

## SECTION V - HEALTH HAZARDS DATA

## EXPOSURE LIMITS

(When exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace)

- ACGIH: 50 ppm (8 hr) TWA, 200 ppm STEL
- OSHA: 50 ppm (8 hr) TWA, 200 ppm Ceiling

(Odor threshold approximately 60 ppm, causes olfactory fatigue)

Consumption of alcoholic beverages may increase the potential for development of toxic effects resulting from exposure to this product.

Effects described in this section are believed not to occur if exposures are maintained at or below appropriate TVLs.

Because of the wide variation of individual susceptibility, these exposure limits may not be applicable to all persons and those with the following medical conditions.

## MEDICAL CONDITIONS

## AGGRAVATED BY EXPOSURE

- Alcoholism, acute and chronic kidney or liver disease, rhythm disorders of the heart, neuritis and other disorders of the nervous system.

## INHALATION

-Major potential route of exposure. Depresses the central nervous system. Symptoms of exposure above 1000 ppm include headaches, nausea, vomiting, dizziness, vertigo, fatigue, lightheadedness and coughing. Exposure above 1000 ppm can cause adverse effects on visual perception and motor skills.

Ventricular arrhythmias and very rapid respiration have been observed in individuals exposed to 15,000 ppm. High concentrations or prolonged overexposure can cause unconsciousness and death.

## SKIN

-Prolonged or repeated skin contact can cause irritation, defatting of skin, and dermatitis. Absorption of liquid through intact skin is possible, causing systemic poisoning, but this is an unlikely route of significant toxic exposure.

## EYES

-Liquid can cause pain and slight temporary injury to eyes. Vapors can irritate eyes.

## INGESTION

-Single dose toxicity is low to moderate. If vomiting occurs, trichloroethylene can be aspirated into the lungs, which can cause chemical pneumonia and systemic effects.

## EMERGENCY AND FIRST AID PROCEDURES:

- INHALATION - Remove to fresh air. If not breathing, give artificial respiration. Call a physician.
- SKIN CONTACT - Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes. Thoroughly clean contaminated clothing and shoes before reuse.

- EYE CONTACT - Flush eyes immediately with water for at least 15 minutes. If irritation persists call a physician.
- INGESTION - DO NOT induce vomiting. Contact a physician or emergency medical facility immediately.

**NOTES TO PHYSICIAN (Includes Antidotes):**

NEVER administer adrenalin following trichloroethylene overexposure.

**TOXICITY DATA**

The finding of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so may result in injury, illness or even death.

Chronic overexposure to trichloroethylene has caused toxic effects in the liver, lymphatic (one species), kidney and cardiovascular system of experimental animals. Humans exposed to trichloroethylene can become intolerant to ethyl alcohol, with small quantities causing inebriation and skin blotches.

**Carcinogenicity:** Trichloroethylene has been evaluated for possible cancer causing effects in laboratory animals. Ingestion studies in B6C3F1 mice exposed to concentrations up to 2,239 mg/kg/day males and 1,739 mg/kg/day found statistically significant increases in liver tumors. Ingestion studies of Osborne-Mendel rats exposed to concentrations up to 1,097 mg/kg/day found no statistically significant increase in cancer. Inhalation studies of Wistar rats, NMRI mice and Syrian hamsters exposed to concentrations up to 500 ppm found no statistical increase except in the female mice where significant increases in lymphoma were observed.

Five Epidemiological studies using a variety of testing approaches have found no increase of cancer in groups exposed to trichloroethylene.

IRAC has classified trichloroethylene in Group 2A as a substance considered probably carcinogenic to humans. The ACGIH has classified trichloroethylene in category A5 as an agent not suspected as a human carcinogen. Trichloroethylene is listed on the IARC carcinogen list, but not by OSHA or NTP. The State of California has listed trichloroethylene under Proposition 65 as a chemical known to cause cancer.

**Reproductive Toxicity:** Reproductive toxicity tests have been conducted to evaluate the potential adverse effects trichloroethylene may have on reproduction and offspring of laboratory animals. Results indicate trichloroethylene did not cause birth defects in mice, rats or rabbits.

It did delay the normal development of rats but this delay did not affect later life.

**SECTION VI - REACTIVITY DATA**

STABILITY - Stable

CONDITIONS TO AVOID - Avoid open flames, electric arcs or other hot surfaces which can cause thermal decomposition.

HAZARDOUS POLYMERIZATION - Will not occur

**INCOMPATIBILITY (Materials to Avoid)** - Strong alkalies, oxidizers, barium, lithium, magnesium and titanium. Refer to Section VIII for information on aluminum and liquid oxygen.

**HAZARDOUS DECOMPOSITION PRODUCTS** - Hydrogen chloride, phosgene and chlorine.

**SECTION VII** - **SPILL OR LEAK PROCEDURES**

**ACTION TO TAKE FOR SPILLS/LEAKS:** Evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. If spill occurs indoors, turn off heating and/or air conditioning systems, to prevent vapors from contaminating entire building. Clean up area by mopping or with absorbent material, and placing in closed container for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. Reportable Quantity (RQ) is 100 lbs. Notify National Response Center (800/424-8802) of uncontrolled spills in excess of RQ.

**WASTE DISPOSAL METHOD:**

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

**SECTION VIII - TRANSPORTATION**

**DOT SHIPPING DESCRIPTION (49 CFR 172.101)** - Trichloroethylene, 6.1, UN 1710, PG III, RQ

**PLACARD REQUIRED** - KEEP AWAY FROM FOOD, UN-1710, CLASS 6

**LABEL REQUIRED** - KEEP AWAY FROM FOOD Class 6

Label as required by OSHA Hazard Communication Standard, and any applicable state and local regulations.

**SECTION IX - HANDLING AND STORAGE**

Store in labeled, sealed containers in a cool, dry, well-ventilated area. Prevent water or moist air from entering storage tanks or containers. Do not cut on or weld on empty or full drums. Aluminum equipment should not be used for storage and/or transfer. Contact with aluminum parts in a pressurized fluid system may cause violent reactions. Consult equipment manufacturer for further information.

Liquid oxygen or strong oxidants may form explosive mixtures with trichloroethylene. Consult supplier before using in oxygen service.

Vapors are heavier than air and will collect in low areas. Do not enter confined spaces such as tanks or pits without proper entry procedures as required by 29 CFR 1910.146. Do not remove or deface labels. Do not reuse drum without recycling or reconditioning in accordance with any applicable federal, state or local laws. SARA Title III Hazard Categories: Immediate Health, Delayed Health

**SECTION X - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION - Where vapor concentration is likely to exceed 50 PPM, a NIOSH/MSHA approved organic vapor type respirator is acceptable.

A NIOSH/MSHA approved self contained breathing apparatus or air line respirator, with full face piece is required for vapor concentrations above 1,000 PPM and for spills and/or emergencies. Follow all applicable respirator use standards and regulations.

VENTILATION - Use local exhaust or dilution ventilation as appropriate to control exposures to below 50 PPM.

EYE PROTECTION - Wear safety glasses. Contact lenses should not be worn. Chemical goggles and/or face shields should be worn where splashing is possible.

GLOVES - Viton, Polyvinyl alcohol\*. For limited service only : Nitrile. \*(degrades in water)

OTHER PROTECTIVE EQUIPMENT - Boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Personnel protective clothing and use of equipment must be in accordance with 29CFR 1910.133 and 29CFR 1910.132.

#### DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

# HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA  
MSDS HABOND 14-5B -1  
\*REVISED 1/22/99  
REPLACES 8/21/91

[Back to Index](#)

## HABOND 14-5B-1

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS' NAME	- HASTINGS PLASTICS COMPANY
PRODUCT SALES AND INFORMATION	- (310) 829-3449
EMERGENCY PHONE NUMBER	- (800) 424-9300
CHEMICAL FAMILY & NAME	- Mixture of ABS Resin and Organic Solvents
TRADE NAME	- Habond 14-5B-1
FORMULA	- Proprietary

### SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	CAS #	%	TLV	ACGIH STEL	OSHA PEL	OSHA STEL
ACRYLONITRILE BUTADIENE						
STYRENE RESIN (ABS)	NON/HAZ		N/A		N/A	
METHYL ETHYL KETONE	78-93-3	65*	200PPM	300 PPM	200ppm	300ppm
HEALTH - 2(HMIS) 1(NFPA)	FLAMMABILITY - 3(HMIS) 3(NFPA)				REACTIVITY - 0(HMIS)	
0(NFPA)	EQUIPMENT - H(HMIS)					

\*Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.

### SECTION III - PHYSICAL DATA

APPEARANCE, COLOR - Milky, translucent, medium syrupy liquid.  
ODOR - Ketone  
BOILING POINT - 172.2°F Based on first boiling component, MEK  
VAPOR PRESSURE (mmHG) - 71.2 mm HG. Based on first boiling component @ 23°C MEK  
VAPOR DENSITY (Air = 1) - 2.5  
SPECIFIC GRAVITY @ 73 +/- 2°F - Typical 0.870 +/- 0.040  
SOLUBILITY IN WATER - Solvent @ 20°C - Approx. 26.8% Resin Precipitates.  
PERCENT VOLATILE BY VOLUME (%) - Approx. 60 - 75%  
EVAPORATION RATE (BUAC = 1) - Approx. 5.7  
VOC STATEMENT: This cement contains 594 grams of VOC per liter as manufactured.

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT, °F - 21°F T.C.C. Based on MEK  
EXTINGUISHING MEDIA - Ansul "Purple K" potassium bicarbonate dry chemical, carbon dioxide, National Aer-O-Foam universal alcohol resistant foam, water spray.  
FLAMMABLE LIMITS (PERCENT BY VOLUME) - LEL - 1.8 UEL - 11.5  
SPECIAL FIRE FIGHTING PROCEDURES - Evacuate enclosed area, stay upwind. Close or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.  
UNUSUAL FIRE AND EXPLOSION HAZARDS - Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source of ignition.

## SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY - X Inhalation X Skin contact Ingestion Eye contact

## EFFECTS OF OVEREXPOSURE

## ACUTE:

INHALATION - Concentrations of 100-300 ppm cause nose and throat irritation. Higher concentrations cause irritation, headache, nausea, drowsiness, dizziness, incoordination.

SKIN CONTACT - Prolonged exposure to liquid or vapors at concentrations greater than the TLV cause moderate irritation and dermatitis.

EYE CONTACT - Liquid and vapors are irritation to eyes. Can cause severe injury - damage reversible.

INGESTION - Moderately toxic. May cause nausea, vomiting and diarrhea.

CHRONIC: There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects. However, simultaneous over-exposure to MEK and n-Hexane can potentiate the known irreversible neurotoxic effects of n-Hexane. There is no reported human evidence that these neurotoxic effects occur when exposure to both chemicals is maintained below established OSHA and ACGIH limits.

## MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE - This material may aggravate an existing dermatitis. Breathing of vapor and/or mist may aggravate asthma and inflammatory or fibrotic pulmonary diseases.

## EMERGENCY AND FIRST AID PROCEDURE

INHALATION - If overcome by vapors, re-locate to fresh air and if breathing stopped, five artificial respiration-preferably mouth-to-mouth. If breathing is difficult, five oxygen. Call physician.

EYE CONTACT - Immediately flush eyes with plenty of water for 15 minutes and call a physician.

SKIN CONTACT - Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes. If irritation develops, get medical attention.

INGESTION - Do not induce vomiting. Give 1 to 2 glass of water or milk. Contact physician or poison center immediately.

## SECTION VI - REACTIVITY DATA

STABILITY - Stable

CONDITIONS TO AVOID - Keep away from heat, sparks, open flame and other sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID) - Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers, and isocyanates.

HAZARDOUS DECOMPOSITION PRODUCTS - On combustion: Dense smoke containing carbon monoxide, carbon dioxide and hydrogen cyanide.

HAZARDOUS POLYMERIZATION - Will not occur.

CONDITIONS TO AVOID - Keep away from heat, sparks, open flame and other sources of ignition.

## SECTION VII - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

WASTE DISPOSAL METHOD: Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH-approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of and air purifying respirator is limited. Use it only off a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

**VENTILATION:** Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

**PROTECTIVE GLOVES** - PVA Coated or Rubber

**EYE PROTECTION** - Splashproof chemical goggles

**OTHER PROTECTIVE EQUIP.** - Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

**SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store in the shade between 40°F and 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Train employees on all special handling procedures before they work with this product.

**OTHER PRECAUTIONS:** Follow all precautionary information given on the container label, product bulletins and our cementing literature. All handling equipment should be electrically grounded.

**SECTION X - SHIPPING INFORMATION**

**D.O.T. HAZARD CLASS.** - 3

**D.O.T.SHIPPING NAME** - Methyl Ethyl Ketone

**IDENTIFICATION NUMBER** - UN 1193

**PACKING GROUP** - II

**LABEL REQUIRED** - Flammable Liquid

**DISCLAIMER OF LIABILITY**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared

By: Joe Morales F#170-21A

# HASTINGS PLASTICS COMPANY

PRODUCT DATA  
MSDS HABOND 14-5B-2  
\*REVISED 1/22/99  
REPLACED 8/22/91

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

[Back to Index](#)

## HABOND 14-5B-2

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURERS' NAME - HASTINGS PLASTICS COMPANY  
PRODUCT INFORMATION & SALES - (310) 829-3449  
EMERGENCY PHONE NUMBER - (800) 424-9300  
CHEMICAL FAMILY & NAME - Ketone  
TRADE NAME - Habond 14-5B-2  
FORMULA - Proprietary

### SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	CAS #	%	ACGIH		OSHA	
			TLV	STEL	PEL	STEL
METHYL ETHYL KETONE	78-93-3	>90*	200PPM	300 PPM	200ppm	300ppm

HEALTH - 2(HMIS) 1(NFPA) FLAMMABILITY - 3(HMIS) 3(NFPA) REACTIVITY - 0(HMIS)  
0(NFPA) EQUIPMENT - H(HMIS)

\*Title III Section 313 Supplier Notification: This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40CFR372. This information must be included in all MSDS's that are copied and distributed for this material.

### SECTION III - PHYSICAL DATA

APPEARANCE, COLOR - Water thin, clear liquid.  
ODOR - Ketone  
BOILING POINT - 175.2°F  
VAPOR PRESSURE (mmHG) - 71.2 mm HG. MEK @ 23°C  
VAPOR DENSITY (Air = 1) - 2.5  
SPECIFIC GRAVITY @ 73 +/-2°F - Typical 0.806 +/-0.040  
SOLUBILITY IN WATER - Appreciable  
PERCENT VOLATILE BY VOLUME (%) - Approx. 100%  
EVAPORATION RATE (BUAC = 1) - Approx. 5.7  
VOC STATEMENT: This cement contains 800 grams of VOC per liter as manufactured.

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT, °F - 21°F T.C.C. Based on MEK  
EXTINGUISHING MEDIA - Ansul "Purple K" potassium bicarbonate dry chemical, carbon dioxide, National Aer-O-Foam universal alcohol resistant foam, water spray.  
FLAMMABLE LIMITS  
(PERCENT BY VOLUME) - LEL - 1.8 UEL - 11.5  
SPECIAL FIRE FIGHTING PROCEDURES - Evacuate enclosed area, stay upwind. Close or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.  
UNUSUAL FIRE AND EXPLOSION HAZARDS - Fire hazard because of low flash point and high volatility. Vapors are heavier than air and may travel to source of ignition.

**SECTION V - HEALTH HAZARD DATA**

PRIMARY ROUTE(S) OF ENTRY -  Inhalation  Skin contact  Ingestion  Eye contact

**EFFECTS OF OVEREXPOSURE****ACUTE:**

**INHALATION** - Concentrations of 100-300 ppm cause nose and throat irritation. Higher concentrations cause irritation, headache, nausea, drowsiness, dizziness, incoordination.

**SKIN CONTACT** - Prolonged exposure to liquid or vapors at concentrations greater than the TLV cause moderate irritation and dermatitis.

**EYE CONTACT** - Liquid and vapors are irritation to eyes. Can cause severe injury - damage reversible.

**INGESTION** - Moderately toxic. May cause nausea, vomiting and diarrhea.

**CHRONIC:** - There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects. However, simultaneous over-exposure to MEK and n-Hexane can potentiate the known irreversible neurotoxic effects of n-Hexane. There is no reported human evidence that these neurotoxic effects occur when exposure to both chemicals is maintained below established OSHA and ACGIH limits.

**MEDICAL CONDITIONS**

**AGGRAVATED BY EXPOSURE** - This material may aggravate an existing dermatitis. Breathing of vapor and/or mist may aggravate asthma and inflammatory or fibrotic pulmonary diseases.

**EMERGENCY AND FIRST AID PROCEDURE**

**INHALATION** - If overcome by vapors, remove to fresh air and if breathing stopped, five artificial respiration-preferably mouth-to-mouth. If breathing is difficult, five oxygen. Call physician.

**EYE CONTACT** - Immediately flush eyes with plenty of water for 15 minutes and call a physician.

**SKIN CONTACT** - Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes. If irritation develops, get medical attention.

**INGESTION** - Do not induce vomiting. Give 1 to 2 glasses water or milk. Contact physician or poison center immediately.

**SECTION VI - REACTIVITY DATA**

**STABILITY** - Stable

**CONDITIONS TO AVOID** - Keep away from heat, sparks, open flame and other sources of ignition.

**INCOMPATIBILITY (MATERIALS TO AVOID)** - Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers, and isocyanates.

**HAZARDOUS DECOMPOSITION PRODUCTS** - On combustion: Dense smoke containing carbon monoxide, carbon dioxide and hydrogen cyanide.

**HAZARDOUS POLYMERIZATION** - Will not occur.

**CONDITIONS TO AVOID** - Keep away from heat, sparks, open flame and other sources of ignition.

**SECTION VII - SPILL OR LEAK PROCEDURE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Eliminate all ignition sources. Avoid breathing of vapors. Keep liquid out of eyes. Flush with large amount of water. Contain liquid with sand or earth. Absorb with sand or nonflammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering drains.

**WASTE DISPOSAL METHOD:** Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH-approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of and air purifying respirator is limited. Use it only off a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

**VENTILATION:** Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

**PROTECTIVE GLOVES** - PVA Coated or Rubber

**EYE PROTECTION** - Splashproof chemical goggles

**OTHER PROTECTIVE EQUIP.** - Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

**SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store in the shade between 40°F and 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Train employees on all special handling procedures before they work with this product.

**OTHER PRECAUTIONS:** Follow all precautionary information given on the container label, product bulletins and our cementing literature. All handling equipment should be electrically grounded.

**SECTION X - SHIPPING INFORMATION**

**D.O.T. HAZARD CLASS.** - 3

**D.O.T.SHIPPING NAME** - Methyl Ethyl Ketone

**IDENTIFICATION NUMBER** - UN 1193

**PACKING GROUP** - II

**LABEL REQUIRED** - Flammable liquid.

**DISCLAIMER OF LIABILITY**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

# HASTINGS PLASTICS COMPANY

PRODUCT DATA  
MSDS 14-7-1  
Revised 7/09/02  
Issued 8/1/88

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

[Back to Index](#)

## ANTI-STATIC CLEANER 14-7-1

### SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY  
EMERGENCY PHONE NUMBER - (310) 829-3449  
PRODUCT NAME - Anti-Static Cleaner 14-7-1  
PRODUCT CODE NUMBER - 14-7-1  
CHEMICAL FAMILY - N/A  
CHEMICAL NAME - Mixture of water & alcohol  
SYNONYMS - Mixture of water & alcohol  
CAS NUMBER - N/A  
T.S.C.A. STATUS - N/A

### SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>
ISOPROPANOL 2-PROPANOL-	67-63-0	10	400 PPM

### SECTION III - PHYSICAL DATA

APPEARANCE - Water.  
COLOR - Water.  
ODOR - N/A.  
MELTING POINT - N/A.  
BOILING POINT - Same as water.  
VAPOR PRESSURE - Same as water.  
VAPOR DENSITY - Same as water.  
SPECIFIC GRAVITY - Same as water.  
SOLUBILITY IN water - Yes.  
PERCENT VOLATILE - Same as water.  
EVAPORATION RATE - Same as water.

### SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F  
(Method Used) - Above 200°F.  
FLAMMABLE LIMITS  
(In Air % LEL) - N/A.  
EXTINGUISHING MEDIA - N/A.  
SPECIAL FIRE FIGHTING  
PROCEDURES - N/A.  
UNUSUAL FIRE AND EXPLOSION HAZARDS  
- N/A

SECTION V - HEALTH EFFECTS DATA

ANIMAL TOXICITY	-	N/A.
ORAL, LD 50 (Ingestion)	-	N/A.
EYE EFFECTS	-	N/A.
SKIN EFFECTS	-	N/A.
THRESHOLD LIMIT VALUE	-	N/A.
EFFECTS OF HUMAN OVEREXPOSURE	-	Eye irritant, may be harmful if swallowed.

SECTION VI - EMERGENCY & FIRST AID PROCEDURES

INHALATION	-	N/A.
EYE CONTACT	-	N/A.
SKIN CONTACT	-	N/A.
INGESTION OF FLUID	-	N/A.

SECTION VII - EMPLOYEE PROTECTION RECOMMENDATIONS

PROTECTIVE GLOVES	-	N/A.
EYE PROTECTION	-	N/A.
OTHER PROTECTIVE EQUIPMENT	-	N/A.

SECTION VIII - REACTIVITY DATA

STABILITY	-	Stable.
HAZARDOUS POLYMERIZATION	-	Will not occur.
INCOMPATIBILITY	-	N/A.
CONDITIONS TO AVOID	-	N/A.

SECTION IX - SPILL OR LEAK PROCEDURES.

N/A.

SECTION X - SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE	-	N/A.
AVERAGE SHELF LIFE	-	N/A.
SPECIAL SENSITIVITY	-	N/A.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose.

Prepared By: Joe Morales

F#170-21A