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Hastings Plastics
Material Safety Data Sheets for Mold Making**

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HASTINGS PLASTICS COMPANY

PRODUCT DATA
MSDS RTV-1900-2A
REVISED 10/05/09
REPLACES 06/10/09

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

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MOLDKOTE RTV 1900-2A

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFO/ SALES - (310) 829-3449
EMERGENCY PHONE NUMBER - (800) 424-9300
PRODUCT NAME - Moldkote RTV-1900-2A
CHEMICAL FAMILY - Moisture Curing Silicone Sealant
CHEMICAL NAME AND
SYNONYMS - N/A
FORMULA - N/A

SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	(1) PEL	(2) TLV	(3) STEL
PETROLEUM NAPHTHA DISTILLATE	64742-89-8	10-15	300 ppm	300 ppm	400
NAPHTHA (petroleum) HYDRO TREATED	64742-49-0	45-50	300 ppm	300ppm	none
SILICONE DIOXIDE (amorphous)	N/A	Trace	20 Mppcf	20 Mppcf	
CYCLOHEXYLAMINE	108-91-8	3	none	none	none

N.E. = NOT ESTABLISHED

(1) 29 CFR 1910.1000.

(2) The American Conference of Governmental Industrial Hygienists (ACGIH) (1984) threshold limit values for chemical substance and physical agents in the work environment and biological exposure indices with intended changes for 1984-1985. (ACGIH) Cincinnati, Ohio.

(3) Same References as # (2).

This material is a dispersion which contains petroleum distillate (naphtha) and silicon dioxide and releases CYCLOHEXYLAMINE upon curing. The specific chemical identity of the ingredients of this formulation are considered a trade secret.

SECTION III-HAZARDS IDENTIFICATION

HAZARDOUS CLASSIFICATIONS

HMIS RATING (product packaged)

HEALTH: 3 FIRE: 3 REACTIVITY: 1 PPE: H

(HMIS Codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Note: Respiratory protection is only recommended in the event that the ventilation or engineering controls are unable to maintain exposure below recommended levels; or in the event of a spill or other emergency response situation.

Hazardous materials identification system and HMIS are registered trademarks of the national paint and coatings association.

Canadian WHMIS Classification: B2, E

SECTION IV - PHYSICAL DATA

APPEARANCE AND ODOR - Viscous liquid. Odor of naphtha.
BOILING POINT - 244°F (118°C).
VAPOR PRESSURE (68°F, mm Hg) - 26
VAPOR DENSITY (Air = 1) - 4
SPECIFIC GRAVITY (Water = 1) - 0.87
SOLUBILITY IN WATER - Negligible.
PERCENT VOLATILE (By Volume) - 60

EVAPORATION RATE (Ether = 1)	- 0.12
FLASH POINT (Method Used)	- 69°F or 21.6°C (Pensky-Martens C. C.).
FLAMMABLE LIMITS (% By Volume In Air)	- LEL: 0.9 UEL: 6.7
V.O.C. CONTENT	- 494 Grams per Liter

SECTION V - FIRE AND HAZARD EXPLOSION DATA

This product is considered flammable and is a fire hazard. It supports combustion and decomposes under fire conditions to give off toxic materials. Do not use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Do not use, pour, spill, or store near heat, spark sources, or open flames. Combustion products of the uncured rubber are toxic. There are no unusual hazards with the cured material.

FIRE FIGHTING PROCEDURES:

Use standard fire fighting techniques to extinguish fires involving this material. Use water spray, dry chemicals, or carbon dioxide. Vapors from combustion are toxic and severely irritating to the respiratory tract and may cause breathing difficulty. As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. If not leaking, keep fire-exposed containers cool with a water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination or fire hazard. Vapors from combustion of the uncured material are toxic.

COMBUSTION BY-PRODUCTS:

Carbon Monoxide
Carbon Dioxide
Silicon Dioxide
Formaldehyde
Various Hydrocarbon Fragments

SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ANIMAL TOXICITY (Oral, LD 50):	- 4640 mg/kg in rats.
EYES(rabbit):	- Extremely irritating.
SKIN CONTACT(rabbit):	- Severe irritant.

SECTION VII - HUMAN HEALTH EFFECTS DATA

EFFECTS OF OVEREXPOSURE:

PRINCIPLE ROUTES OF EXPOSURE: - Skin contact and inhalation.

SKIN CONTACT: - May cause irritation.

EYE CONTACT: - May cause burns.

INHALATION: - Vapors may cause respiratory irritation.

TARGET ORGANS EFFECTED: - Brain and Nervous System

REPRODUCTIVE TOXINS: - This material does not contain any reproductive toxins over 1%
This material does not contain any reproductive toxins over 0.1%

MATERIALS OVER 0.1% BY WEIGHT LISTED AS A CARCINOGEN:

There are no carcinogenic ingredients present at over 0.1% in this material.

OTHER PRECAUTIONS:

There are no data available which address medical conditions which are generally recognized as being aggravated by exposure to this product. (Reader should consult Section IV Health Effects Data for effects observed in experimental animals under controlled laboratory conditions using this product). This product contains amorphous silicon dioxide, but due to the physical nature of this material, inhalation of silicon dioxide dust is not anticipated.

This product contains a petroleum distillate. Exposure to the vapors of this material may cause central nervous system depression. Severe exposure has been known to cause irritation of the respiratory tract. Signs and symptoms of overexposure include dizziness, drowsiness, headache, nausea, dyspnea, and dermatitis (1). This product releases CYCLOHEXYLAMINE upon moisture curing. Exposure to CYCLOHEXYLAMINE may cause irritation of the eyes, mucous membranes, and skin.

OTHER EXPOSURE LIMITS:

CHEMICAL	TYPE	EXPOSURE GUIDELINES
Silica Amorphous, fumed	REL	6mg/m ³
Methanol	Short-term Exposure Limit (STEL)	250 ppm

SECTION VIII - EMERGENCY AND FIRST AID PROCEDURES**EYE CONTACT:**

In case of contact, immediately flush eyes with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately. Wash clothing before reuse.

SKIN CONTACT:

Flush skin well with water and wash well with water and soap. Obtain medical attention if irritation occurs.

INGESTION:

If swallowed, give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have medical personnel determine if vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

INHALATION:

If inhaled, remove to fresh air. Seek medical attention if respiratory irritation occurs or breathing becomes difficult.

SECTION IX - SPECIAL PROTECTION INFORMATION**GENERAL:**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because conditions of use will vary depending upon customer applications, specific safe handling procedures should be developed by a person knowledgeable of the intended use, conditions, and equipment. During the development of safe handling procedures, consideration should be given to the need for cleaning of equipment and piping systems to render them non-hazardous before maintenance and repair activities are performed.

ENGINEERING CONTROLS:

In those cases where engineering controls are indicated by the use conditions, the following traditional exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation, and remote control in combination with appropriate use of personal protective equipment.

INGESTION:

All food should be kept in a separate area away from the storage/use location. Eating, drinking, and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, hands and face should be thoroughly washed.

SKIN CONTACT:

Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing selected with regard for use condition exposure potential.

EYE CONTACT:

Eye contact should be avoided through the use of chemical safety glasses, goggles or a face shield selected with regard for use condition exposure potential.

INHALATION:

If use conditions generate airborne contamination, the material should be handled in an open (e.g. outdoor) or well ventilated area. Where adequate ventilation is not available, use NIOSH-approved organic vapor respirators with dust, mist, and fume filter to reduce exposure. Where exposure potential under the use conditions necessitates a higher level of protection, use a positive-pressure, air-supplied respirator.

EXPOSURE LIMITS:

No exposure limit has been established for this product.

SECTION X - REACTIVITY DATA**STABILITY**

- Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION

- Hazardous polymerization cannot occur.

GENERAL

- Hydrolysis slowly at ambient temperatures, when exposed to moist air, to release CYCLOHEXYLAMINE. Solvent evaporation will also take place if open to the air. Keep container closed to prevent exposure to air.

CONDITIONS TO AVOID

- Avoid contact with incompatible materials.

SECTION XI - HANDLING AND STORAGE**HANDLING:****PRECAUTIONS FOR SAFE HANDLING:**

Ensure adequate ventilation. Use care when opening containers, ignitable vapors may accumulate in the container headspace. Hydrolyzes on contact with moisture releasing, ignitable, corrosive vapors. Must be syphoned off in situ. Spilled substance increases risk of slippage.

PRECAUTIONS AGAINST FIRE AND EXPLOSION:

Vapors may form in closed rooms with the air mixtures, leading to explosion in the presence of sources of ignition, even in empty, uncleaned vessels. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

STORAGE:**CONDITIONS FOR STORAGE ROOMS AND VESSELS:**

Nitrogen blanket, pad or purge containers to prevent flammable air vapor mixtures from forming in the container headspace. Do not store flammable liquids in plastic IBC's (i.e. Intermediate bulk containers or plastic tote tanks). Containers used to dispense flammable liquids should be with flash arresters and self closing spigots. Make sure there is no possibility of entering the ground.

ADVICE FOR STORAGE OF INCOMPATIBLE MATERIALS:

Do not store together with oxidizing agents like peroxides etc... Do not store with fire promoting materials. Keep away from water.

FURTHER INFORMATION FOR STORAGE

Do not weld, cut, or grind empty containers.

Store flammable liquids in a cool, dry, fire protected storage area, free from sources of ignition, away from compressed or liquid oxygen, or other oxidizing agents, or strong inorganic acids.

Store in the original container.

SECTION XII - ECOLOGICAL INFORMATION**INFORMATION ON ELIMINATION (PERSISTENCE AND DEGRADABILITY)****BIODEGRADATION / FURTHER INFORMATION:**

Silicone content: Biologically not degradable.

FURTHER INFORMATION:

Insoluble in water. Separation by sedimentation and oil separator.

BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS:

-

FURTHER INFORMATION:

Polymer components: Bioaccumulation is not expected to occur.

Organic solvent (s): Bioaccumulation is not excluded.

ECOTOXICOLOGICAL EFFECTS:

Classification based on ingredients: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

EFFECTS IN SEWAGE TREATMENT PLANTS (Bacteria toxicity: respiration / reproduction inhibition):

Do not introduce large amounts into purification plants.

SECTION XIII - SPILL AND LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Make sure all personnel involved in the spill clean-up follow good industrial hygiene practices (refer to SECTION IX - Special Protection Information). Any person entering either a significant spill area or an unknown concentration of vapor or aerosol should use a positive-pressure, self-contained breathing apparatus, or a positive-pressure, supplied-air respirator with escape pack. Small spills can be handled routinely. Use adequate ventilation and wear a NIOSH-approved respirator with dust, mist, and fume filter to prevent inhalation exposure. Wear protective clothing to prevent skin and eye contact. Use the following procedures: Absorb spill with sand or Fuller's earth. Sweep up and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, state, and federal laws and regulations regarding disposal, spill, clean-up, removal, or discharge. In case of spill emergency, day or night, call CHEMTREC (800-424-9300).

WASTE DISPOSAL METHOD:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. NOTE: State and local regulations may be more stringent than Federal.

DISPOSAL OF CONTAINER:

Dispose of empty containers according to any applicable regulations under the Resource Conservation and Recovery Act. NOTE: State and local regulations may be more stringent than federal.

CORROSIVITY TO MATERIALS OF CONSTRUCTION:

Not recommended for use with acrylic or polycarbonate substrates.

RCRA WASTE CLASSIFICATION:

D001 (Ignitable)

D002 (Corrosive)

This classification applies only to the material as it was originally produced.

SECTION XIV - TRANSPORT INFORMATION**US DOT & CANADA TDG SURFACE**

D.O.T. HAZARD NAME

- Coating Solution

D.O.T. I.D. #

- UN 1139, PGIII

D.O.T. HAZARD CLASS - Flammable Liquid
 PRIMARY HAZARD CLASS - 3

TRANSPORT BY SEA IMDG-CODE

VALUATION - Hazardous Product
 CLASS - 3
 PACKAGING GROUP - III
 UN NO - 1139
 PROPER SHIPPING NAME - Flammable Liquid, Coating Solution
 MARINE POLLUTANT - No

***Same for air shipment.**

SECTION XV - REGULATORY INFORMATION**UNITED STATES**

TSCA INVENTORY STATUS:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) EXPORT NOTIFICATION:

12(b) CHEMICAL REPORTING REQUIRED UNDER TSCA
 This material does not contain any TSCA 12(b) regulated chemicals.

CWA 307 PRIORITY POLLUTANTS	-Benzene, methyl-
CWA 311 HAZARDOUS SUBSTANCES	-1,2-Ethane diamine / Benzene, methyl-
SDWA MCL CHEMICALS	-Benzene, methyl-
HAPS	-Methanol / Benzene, methyl-

CERCLA REGULATED CHEMICALS

CHEMICAL RQ
 This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS CHEMICALS:

CHEMICAL RQ TPQ
 This material does not contain any SARA extremely hazardous substances.

SARA 311/312 HAZARD CLASS -Immediate (acute) health hazard. Delayed (chronic) health hazard.
 Fire hazard.

SARA 313 CHEMICALS:

CHEMICAL CAS No. LOWER LIMIT WT. % UPPER LIMIT WT. %
 This chemical does not contain any SARA 313 chemicals above *de minimus* levels.

STATE REGULATIONS

MASSACHUSETTS SUBSTANCE LIST:

Silica amorphous, fumed

PENNSYLVANIA RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:

Silica amorphous, fumed

NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:

Silica amorphous, fumed

CALIFORNIA PROPOSITION 65 CARCINOGENS:

This material does not contain any chemicals known to the State of California to cause cancer.

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS:

Benzene, methyl-

HMIS:

Health	3
Fire Hazard	3
Reactivity	1
Personal Protection	X

CANADA

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS HAZARD CLASSES

-B2. D2B. E.

DSL STATUS

-This material or its components are listed on the Canadian Domestic Substance List.

NON-DSL CHEMICALS:

CHEMICAL _____ CAS No. _____ WT. % _____
 This material does not contain any non-DSL chemicals.

CANADIAN INGREDIENT DISCLOSURE LIST: -Silica amorphous, fumed

OTHER INTERNATIONAL INVENTORIES:

EUROPE / EINECS:

Yes - This material or its components are listed on or are in compliance with EINECS.

JAPAN / MITI/ENCS:

Compliance with this inventory has not been determined.

AUSTRALIA / AICS:

Yes - This material or its components are listed on AICS.

KOREA / ECL:

Yes - This material or its components are listed on Korean ECL.

PHILIPPINES / PICCS:

Yes - This material or its components are listed on PICCS.

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 RTV-1900-2A
SPECIAL
REVISED 09/21/01
REPLACES 10/15/98

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MOLDKOTE RTV 1900-2A SPECIAL

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	-	HASTINGS PLASTICS COMPANY
PRODUCT INFO/ SALES	-	(310) 829-3449
EMERGENCY PHONE NUMBER	-	(800) 424-9300
PRODUCT NAME	-	Moldkote RTV-1900-2A Special
CHEMICAL FAMILY	-	Moisture Curing Silicone Sealant
CHEMICAL NAME AND SYNONYMS	-	N/A
FORMULA	-	N/A
HMIS:		
Health	-	3
Flammability	-	3
Reactivity	-	1
Person Protective Equipment	-	X

SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	(1) PEL	(2) TLV	(3) STEL
PETROLEUM NAPHTHA DISTILLATE	64742-89-8	10-15	300 ppm	300 ppm	400
NAPHTHA (petroleum) HYDRO TREATED	64742-49-0	45-50	300 ppm	300ppm	none
SILICONE DIOXIDE (amorphous)	N/A	Trace	20 Mppcf	20 Mppcf	
CYCLOHEXYLAMINE	108-91-8	3	none	none	none

N.E. = NOT ESTABLISHED

(1) 29 CFR 1910.1000.

(2) The American Conference of Governmental Industrial Hygienists (ACGIH) (1984) threshold limit values for chemical substance and physical agents in the work environment and biological exposure indices with intended changes for 1984-1985. (ACGIH) Cincinnati, Ohio.

(3) Same References as # (2).

This material is a dispersion which contains petroleum distillate (naphtha) and silicon dioxide and releases CYCLOHEXYLAMINE upon curing. The specific chemical identity of the ingredients of this formulation are considered a trade secret.

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR	-	Viscous liquid. Odor of naphtha.
BOILING POINT	-	244°F (118°C).
VAPOR PRESSURE (68 ⁰ F, mm Hg)	-	26
VAPOR DENSITY (Air = 1)	-	4
SPECIFIC GRAVITY (Water = 1)	-	0.87
SOLUBILITY IN WATER	-	Negligible.
PERCENT VOLATILE (By Volume)	-	40
EVAPORATION RATE (Ether = 1)	-	0.12
FLASH POINT (Method Used)	-	69°F or 21.6°C (Pensky-Martens C. C.).
FLAMMABLE LIMITS (% By Volume In Air)	-	LEL: 0.9 UEL: 6.7
V.O.C. CONTENT	-	329 Grams per Liter

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

This product is considered flammable and is a fire hazard. It supports combustion and decomposes under fire conditions to give off toxic materials. Do not use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Do not use, pour, spill, or store near heat, spark sources, or open flames. Combustion products of the uncured rubber are toxic. There are no unusual hazards with the cured material.

FIRE FIGHTING PROCEDURES:

Use standard fire fighting techniques to extinguish fires involving this material. Use water spray, dry chemicals, or carbon dioxide. Vapors from combustion are toxic and severely irritating to the respiratory tract and may cause breathing difficulty. As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. If not leaking, keep fire-exposed containers cool with a water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination or fire hazard. Vapors from combustion of the uncured material are toxic.

COMBUSTION BY-PRODUCTS:

Carbon Monoxide
Carbon Dioxide
Silicon Dioxide
Formaldehyde
Various Hydrocarbon Fragments

SECTION V - HEALTH HAZARD DATA**EFFECTS OF OVEREXPOSURE:**

ANIMAL TOXICITY (Oral, LD 50): 4640 mg/kg in rats.
EYES(rabbit): Extremely irritating.
SKIN CONTACT(rabbit): Severe irritant.

SECTION VI - HUMAN HEALTH EFFECTS DATA**EFFECTS OF OVEREXPOSURE:**

PRINCIPLE ROUTES OF EXPOSURE: Skin contact and inhalation.

SKIN CONTACT: May cause irritation.
EYE CONTACT: May cause burns.
INHALATION: Vapors may cause respiratory irritation.
TARGET ORGANS EFFECTED: Brain and Nervous System
REPRODUCTIVE TOXINS: This material does not contain any reproductive toxins over 1%
This material does not contain any reproductive toxins over 0.1%

MATERIALS OVER 0.1% BY WEIGHT LISTED AS A CARCINOGEN:

There are no carcinogenic ingredients present at over 0.1% in this material.

OTHER PRECAUTIONS:

There are no data available which address medical conditions which are generally recognized as being aggravated by exposure to this product. (Reader should consult Section IV Health Effects Data for effects observed in experimental animals under controlled laboratory conditions using this product). This product contains amorphous silicon dioxide, but due to the physical nature of this material, inhalation of silicon dioxide dust is not anticipated.

This product contains a petroleum distillate. Exposure to the vapors of this material may cause central nervous system depression. Severe exposure has been known to cause irritation of the respiratory tract. Signs and symptoms of overexposure include dizziness, drowsiness, headache, nausea, dyspnea, and dermatitis (1). This product releases cYCLOHEXYLAMINE upon moisture curing. Exposure to cYCLOHEXYLAMINE may cause irritation of the eyes, mucous membranes, and skin.

OTHER EXPOSURE LIMITS:

CHEMICAL	TYPE	EXPOSURE GUIDELINES
Silica Amorphous, fumed	REL	6mg/m ³
Methanol	Short-term Exposure Limit (STEL)	250 ppm

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:

In case of contact, immediately flush eyes with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately. Wash clothing before reuse.

SKIN CONTACT:

Flush skin well with water and wash well with water and soap. Obtain medical attention if irritation occurs.

INGESTION:

If swallowed, give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have medical personnel determine if vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

INHALATION:

If inhaled, remove to fresh air. Seek medical attention if respiratory irritation occurs or breathing becomes difficult.

SECTION VIII - SPECIAL PROTECTION INFORMATION

GENERAL:

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because conditions of use will vary depending upon customer applications, specific safe handling procedures should be developed by a person knowledgeable of the intended use, conditions, and equipment. During the development of safe handling procedures, consideration should be given to the need for cleaning of equipment and piping systems to render them non-hazardous before maintenance and repair activities are performed.

ENGINEERING CONTROLS:

In those cases where engineering controls are indicated by the use conditions, the following traditional exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation, and remote control in combination with appropriate use of personal protective equipment.

INGESTION:

All food should be kept in a separate area away from the storage/use location. Eating, drinking, and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, hands and face should be thoroughly washed.

SKIN CONTACT:

Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing selected with regard for use condition exposure potential.

EYE CONTACT:

Eye contact should be avoided through the use of chemical safety glasses, goggles or a face shield selected with regard for use condition exposure potential.

INHALATION:

If use conditions generate airborne contamination, the material should be handled in an open (e.g. outdoor) or well ventilated area. Where adequate ventilation is not available, use NIOSH-approved organic vapor respirators with dust, mist, and fume filter to reduce exposure. Where exposure potential under the use conditions necessitates a higher level of protection, use a positive-pressure, air-supplied respirator.

EXPOSURE LIMITS:

No exposure limit has been established for this product, however, the following exposure limits apply for product constituents:

SECTION IX - REACTIVITY DATA

- STABILITY** - Stable under normal conditions of use.
- HAZARDOUS POLYMERIZATION** - Hazardous polymerization cannot occur.
- GENERAL** - Hydrolysis slowly at ambient temperatures, when exposed to moist air, to release CYCLOHEXYLAMINE. Solvent evaporation will also take place if open to the air. Keep container closed to prevent exposure to air.
- CONDITIONS TO AVOID** - Avoid contact with incompatible materials.

SECTION X - SPILL AND LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Make sure all personnel involved in the spill clean-up follow good industrial hygiene practices (refer to SECTION VII - Special Protection Information). Any person entering either a significant spill area or an unknown concentration of vapor or aerosol should use a positive-pressure, self-contained breathing apparatus, or a positive-pressure, supplied-air respirator with escape pack. Small spills can be handled routinely. Use adequate ventilation and wear a NIOSH-approved respirator with dust, mist, and fume filter to prevent inhalation exposure. Wear protective clothing to prevent skin and eye contact. Use the following procedures: Absorb spill with sand or Fuller's earth. Sweep up and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, state, and federal laws and regulations regarding disposal, spill, clean-up, removal, or discharge. In case of spill emergency, day or night, call CHEMTREC (800-424-9300).

WASTE DISPOSAL METHOD:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. NOTE: State and local regulations may be more stringent than Federal.

DISPOSAL OF CONTAINER:

Dispose of empty containers according to any applicable regulations under the Resource Conservation and Recovery Act. NOTE: State and local regulations may be more stringent than federal.

CORROSIVITY TO MATERIALS OF CONSTRUCTION:

Not recommended for use with acrylic or polycarbonate substrates.

RCRA WASTE CLASSIFICATION:

D001 (Ignitable)

D002 (Corrosive)

This classification applies only to the material as it was originally produced.

SECTION XI - SHIPPING AND STORAGE INFORMATION**GENERAL PRECAUTIONS:**

Containers should be stored in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Store away from food stuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container. Do not store near strong acids or oxidizing agents.

Prolonged storage at elevated temperatures should be avoided. Care should be taken to prevent moisture condensation on the container. Keep away from heat, sparks, or open flame. Never use welding or cutting torch on or near any container (even empty) as an explosion can occur.

D.O.T. HAZARD NAME - COATING SOLUTION
D.O.T. I.D.# - UN 1139 , PGIII
D.O.T. HAZARD CLASS - Flammable liquid
PRIMARY HAZARD CLASS: - 3

UNITED STATES

TSCA INVENTORY STATUS:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) EXPORT NOTIFICATION:

12(b) CHEMICAL **REPORTING REQUIRED UNDER TSCA**

This material does not contain any TSCA 12(b) regulated chemicals.

CWA 307 PRIORITY POLLUTANTS:

Benzene, methyl-

CWA 311 HAZARDOUS SUBSTANCES:

1,2-Ethane diamine / Benzene, methyl-

SDWA MCL CHEMICALS:

Benzene, methyl-

HAPS:

Methanol / Benzene, methyl-

CERCLA REGULATED CHEMICALS:

CHEMICAL **RQ**

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS CHEMICALS:

CHEMICAL **RQ** **TPQ**

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 HAZARD CLASS:

Immediate (acute) health hazard.

Delayed (chronic) health hazard.

Fire hazard.

SARA 313 CHEMICALS:

CHEMICAL **CAS No.** **LOWER LIMIT WT. %** **UPPER LIMIT WT. %**

This chemical does not contain any SARA 313 chemicals above *de minimus* levels.

STATE REGULATIONS

MASSACHUSETTS SUBSTANCE LIST:

Silica amorphous, fumed

PENNSYLVANIA RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:

Silica amorphous, fumed

NEW JERSEY RIGHT-TO-KNOW HAZARDOUS SUBSTANCE LIST:

Silica amorphous, fumed

CALIFORNIA PROPOSITION 65 CARCINOGENS:

This material does not contain any chemicals known to the State of California to cause cancer.

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS:

Benzene, methyl-
HMIS

Health	3
Fire Hazard	3
Reactivity	1
Personal Protection	X

CANADA

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS HAZARD CLASSES:

B2. D2B. E.

DSL STATUS:

This material or its components are listed on the Canadian Domestic Substance List.

NON-DSL CHEMICALS:

<u>CHEMICAL</u>	<u>CAS No.</u>	<u>WT. %</u>
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This material does not contain any non-DSL chemicals.

CANADIAN INGREDIENT DISCLOSURE LIST:

Silica amorphous, fumed

OTHER INTERNATIONAL INVENTORIES:

EUROPE / EINECS:

Yes - This material or its components are listed on or are in compliance with EINECS.

JAPAN / MITI/ENCS:

Compliance with this inventory has not been determined.

AUSTRALIA / AICS:

Yes - This material or its components are listed on AICS.

KOREA / ECL:

Yes - This material or its components are listed on Korean ECL.

PHILIPPINES / PICCS:

Yes - This material or its components are listed on PICCS.

DISCLAIMER OF LIABILITY

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Prepared By: Joe Morales

Revised By: Erik Ricci 09/21/01

F#170-21A

HASTINGS PLASTICS COMPANY

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

PRODUCT DATA
MSDS 1900-3
*Revised 12/8/98
REPLACED 3/24/93

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MOLDKOTE 1900-3 PRIMER

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
EMERGENCY PHONE NUMBER - (800)424-9300
PRODUCT NAME - Moldkote 1900-3 Primer
GENERIC DESCRIPTION - Organ silicate in Solvent
CAS NUMBER - Mixture
RCRA HAZARD CLASS
(40CFR 261) - If discarded: ignitable (DOO1)
E.P.A. PRIORITY
(40CFR 122.53) - None
POLLUTANTS:
NFPA (National Fire
Protection Association) - 704
HEALTH (NFPA) - 2
FLAMMABILITY (NFPA) - 3
REACTIVITY (NFPA) - 0

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS NO.</u>	<u>%</u>	<u>EXPOSURE LIMITS</u>
NAPHTHA, PETROLEUM, LIGHT ALIPHATIC PPM	064742898	85	OBSERVE VM & P NAPHTHA LIMITS OSHA PEL: TWA 300 PPM, STEL 400 PPM ACGIH TLV: TWA 300 PPM
TETRA (2-METHOXYETHOXY)- SILANE	002157451	5	SEE COMMENT 1.
TETRAPROPYL ORTHOSILICATE	000682019	5	SEE COMMENT 2.
TETRABUTYL TITANATE	005593704	5	SEE COMMENT 3.
COMMENT 1:	OBSERVE LIMITS FOR 2-METHOXYETHANOL, FORMED ON EXPOSURE TO WATER OR HUMID AIR. OSHA PEL-SKIN: TWA 25 PPM. ACGIH TLV-SKIN: TWA 5 PPM.		
COMMENT 2:	OBSERVE LIMITS FOR N-PROPYL ALCOHOL, FORMED ON EXPOSURE TO WATER OR HUMID AIR. OSHA PEL: TWA 200PPM, STEL 250 PPM. ACGIH TLV-SKIN: TWA 200PPM, STEL 250 PPM		
COMMENT 3:	OBSERVE LIMITS FOR N-BUTYL ALCOHOL, FORMED ON EXPOSURE TO WATER OR HUMID AIR. OSHA PEL-SKIN AND ACGIH TLV-SKIN: 50 PPM CEILING.		

SECTION III - EFFECTS OF OVEREXPOSURE

EYES: Direct contact irritates slightly with redness and swelling.

(Over)

SKIN: A single relatively short exposure (less than 24 hours) irritates. Repeated prolonged contact (24 to 48 hours) irritates seriously, may burn mildly.

INHALATION: Short vapor exposure may cause drowsiness and irritate nose and throat. Degree of effects depends on concentration and length of exposure.

ORAL: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.

INHALING LIQUID WHILE VOMITING CAN INJURE LUNGS SERIOUSLY.

COMMENTS: PROLONGED OVEREXPOSURE TO 2-METHOXYETHANOL, FORMED ON EXPOSURE TO WATER OR HUMID AIR, MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

SECTION IV - EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove to fresh air. Obtain immediate medical attention.

EYE CONTACT: Flush with water.

SKIN CONTACT: Wipe off and flush with water for 15 minutes. Get medical attention if irritation develops.

ORAL: DO NOT INDUCE VOMITING. Obtain immediate medical attention.

COMMENTS: Inhaling liquid while vomiting can injure lungs seriously. If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs.

SECTION V - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT °F

(Method Used) - 63 °F/17 °C (Closed Cup).

AUTOIGNITION - Not determined.

FLAMMABLE LIMITS

(In Air % LEL) - LOWER: Not determined.
UPPER: Not determined.

EXTINGUISHING MEDIA - Water fog, CO₂, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and can travel along the ground to remote ignition sources.

COMMENTS: Static electricity may accumulate and ignite vapors. Prevent a possible fire hazard by suitable means, such as, bonding and grounding, inert gas purge, vapor dilution, and the like.

SECTION VI - PHYSICAL DATA

BOILING POINT

(760 mm HG) - 210 °F/99 °C.

SPECIFIC GRAVITY

(At 77 °F/25 °C) - .76

MELTING POINT - N/A.

VAPOR PRESSURE

(At 77 °F/25 °C) - 25 MM

VAPOR DENSITY

(Air = 1 AT 77 °F/25 °C) - Approx. 3.8

(next page)

PERCENT VOLATILE (By Volume)	-	Approx. 95%
EVAPORATION RATE (Ether = 1)	-	N.D.
SOLUBILITY IN WATER	-	N.D.
APPEARANCE, COLOR AND ODOR	-	Liquid, red, solvent odor.
VOC CONTENT	-	741 Grams per Liter

SECTION VII - REACTIVITY DATA

STABILITY	-	Stable.
HAZARDOUS POLYMERIZATION	-	Will not occur.
INCOMPATIBILITY	-	Oxidizing material can cause a reaction. Moisture or humid air.
CONDITIONS TO AVOID	-	Exposure to moisture or humid air until ready to use.
HAZARDOUS DECOMPOSITION PRODUCTS	-	Titanium Dioxide, Silicon Dioxide, Carbon Dioxide, and traces of incompletely burned carbon products.

SECTION VIII - SPILL LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use absorbent material to collect and contain for salvage or disposal. Remove all sources of ignition and wear proper protection equipment.

WASTE DISPOSAL METHOD: Review all Local, State and Federal regulations concerning health and pollution be reviewed to determine approved disposal procedures.

SECTION IX - SPECIAL PROTECTION INFORMATION

EYES: Use chemical worker goggles.

SKIN: Washing at mealtime and end of shift is adequate. Remove contaminated clothing and shoes as soon as practical and clean thoroughly before reuse.

INHALATION: Use respiratory protection unless local exhaust ventilation is adequate or air sampling data show exposures are within TLV and PEL guidelines.

D.O.T. (49CFR 171.8) / E.P.A. (40 CFR 117) SPILL REPORTING INFO.:

HAZARDOUS SUBSTANCE	-	None.
CONCENTRATION OF HAZARDOUS SUBSTANCES	-	N/A.
REPORTABLE QUANTITY OF PRODUCT	-	N/A.

COMMENTS: Product contains no ingredient subject to D.O.T. or E.P.A. CERCLA/SARA environmental release reporting regulations. See SECTION XI for additional SARA compliance information.

Product is an oil in the context of the U.S. CLEAN WATER ACT. Spills to U.S. surface waters, or to watercourse or sewer leading to U.S. surface waters that cause a visible sheen must be reported to the National Response Center.

(over)

SECTION X - ROUTINE HANDLING PRECAUTIONS**PROTECTIVE EQUIPMENT:****EYES:** Use proper protection. Safety glasses as a minimum.**SKIN:** Washing at mealtime and end of shift is adequate.**INHALATION:** Use respiratory protection unless local exhaust ventilation is adequate or air sampling data show exposures are within TLV and PEL Guidelines.**VENTILATION: LOCAL EXHAUST: RECOMMENDED.** Mechanical (General).**SUITABLE RESPIRATORY:** Organic vapor type.**OTHER PRECAUTIONS:** These precautions are for room temperature handling. Use at elevated temperatures may require added precautions. Good practice required that gross amounts of any chemical be removed from the skin as soon as possible, especially before eating or smoking.**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING:**

Product is flammable. Use reasonable care and caution.

SECTION XI - COMMENTS**ADDITIONAL SARA REGULATORY COMPLIANCE INFORMATION****SEC. 312 HAZARD CLASS:** IMMEDIATE, DELAYED, AND FIRE.**SEC. 313 NOTIFICATION:** NOT APPLICABLE - EITHER NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.**SUPPLEMENTAL STATE COMPLIANCE INFORMATION - CAS NO. & COMPONENT NAME**

PENNSYLVANIA:	000682019	TETRAPROPYL ORTHOSILICATE
	002157451	TETRA(2-METHOXYETHOXY)SILANE
	005593704	TETRABUTYL TITANATE
	064742898	NAPHTHA, PETROLEUM, LIGHT ALIPHATIC
MASSACHUSETTS:	NO INGREDIENTS REGULATED BY MASSACHUSETTS RIGHT TO KNOW LEGISLATION PRESENT.	
NEW JERSEY:	SAME AS PENNSYLVANIA ABOVE.	

SECTION XII - SHIPPING INFORMATION

D.O.T. HAZARD NAME (49CFR 172.101)	-	Naphtha.
D.O.T. HAZARD CLASS (49CFR 172.101)	-	Flammable liquid.
PROPER SHIPPING NAME (49CFR 172.101)	-	Flammable liquid NOS.
D.O.T. I.D. NO. (49CFR 172.101)	-	UN 1993

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MOLDKOTE 1906

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME	- HASTINGS PLASTICS COMPANY
PRODUCT INFORMATION & SALES	- (310) 829-3449
EMERGENCY PHONE NUMBER	- (800) 424-9300
PRODUCT NAME	- Moldkote
PRODUCT CODE NUMBER	- 1906
CHEMICAL FAMILY	- Vinyl
CHEMICAL NAME AND SYNONYMS	- Vinyl

SECTION II - HAZARDOUS INGREDIENTS

COMPONENTS	CAS # %	ACGIH-PPM			OSHA-PPM
		TLV	LEL	PEL	
TOLUENE	108-88-3	30-35	200	1.0	N/A
METHYL ETHYL KETONE	78-93-3	20-22	200	N/A	N/A
METHYL ISOBUTYL KETONE	108-10-9	9-11	100	1.4	N/A
BUTYL CELLOSOLVE	111-76-2	1.85	50	1.1	N/A
ISOPROPYL ALCOHOL	67-63-0	0.23	400	2.0	N/A
ACETONE	67-64-1	5	750	N/A	750
M-75	64742-89-8	8	300	N/A	N/A
XYLENE	1330-20-7	3-4	100	N/A	100
NORMAL BUTYL ACETATE	123-86-4	1-2	150	N/A	150
VINYL RESIN	9003-22-9	16	N/A	N/A	N/A
VINYL ACETATE	108-05-4	.08	See Section V		

SECTION III - PHYSICAL DATA

APPEARANCE	- Green liquid.
BOILING POINT	- 200 - 300°F.
VAPOR DENSITY	- Heavier than air.
SPECIFIC GRAVITY (Wt/Gal)	- 7.46
PERCENT VOLATILE BY VOLUME	- 9.57
EVAPORATION RATE	- Slower than ether.
V.O.C. CONTENT Gms/Liter	- 747

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT	- 24°F.
FLAMMABLE LIMITS	- Unknown.
EXTINGUISHING MEDIA	- Carbon dioxide, dry chemical, alcohol foam.
UNUSUAL FIRE AND EXPLOSION HAZARD	- May form toxic materials upon burning: carbon dioxide, carbon monoxide, and various hydrocarbons.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE - 100 ppm in air.

EFFECTS OF OVEREXPOSURE: No data available. Vinyl chloride has been listed as carcinogen in the National Toxicology Program (NTP) Annual Report on Carcinogens, in International Agency for Research on Cancer (IARC) monographs and by OSHA. This product contains less than 1 ppm of vinyl chloride monomer and is exempt from the OSHA vinyl chloride standard CFR 29 Paragraph 1910.1017 under (a)(2) of the standard. It is not anticipated to contribute to risk of adverse health effects at concentrations contained in this product. This product may contain small amounts (<0.5%) of vinyl acetate, vapors of which have been shown to cause tumors of the respiratory tract of laboratory animal in lifetime inhalation studies high exposure levels. There is no evidence that it has caused cancer in humans. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of vinyl acetate below the recommended exposure limits.

EMERGENCY & FIRST AID PROCEDURES: In case of eye contact, flush eyes with eye wash, or water for 5 - 10 minutes. Consult physician. In case of skin contact, wipe off material and wash contacted area.

SECTION VI - REACTIVITY DATA

STABILITY - Stable.

HAZARDOUS POLYMERIZATION - Will not occur.

CONDITIONS TO AVOID - Sparks, flame, and high temperatures.

HAZARDOUS DECOMPOSITION - Will react with strong oxidizing materials.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Add solid absorbant scoop into disposal container, solvent rinse, and hose down area.

WASTE DISPOSAL METHOD: Dispose of in accordance with local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - Use approved respiratory equipment if vapor exceeds TLV.

EYE PROTECTION - Use safety glasses.

SECTION IX - SPECIAL PRECAUTIONS & STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid flame. High temperature storage. Also localized solvent vapor build-up. Ground equipment to eliminate danger of static electrical sparking. Do not take internally, avoid prolonged contact, or inhalation.

SECTION X - REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS: The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

FEDERAL EPA

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response of release of quantities of Hazardous Substances Equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product at a level which could require reporting under the statute are:

UPPER BOUND

CHEMICAL	CAS NUMBER	CONCENTRAION %
Acetone	67-64-1	5
Vinyl Acetate	108-05-4	0.5

Superfund Amendments and Reauthorization**Act of 1986 (SARA) Title III**

requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

UPPER BOUND

CHEMICAL	CAS NUMBER	CONCENTRAION %
Vinyl Acetate	108-05-4	0.5

Superfund Amendments and Reauthorization**Act of 1986 (SARA) Title III**

requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

This information must be included in all MSDs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

UPPER BOUND

CHEMICAL	CAS NUMBER	CONCENTRAION %
Acetone	67-64-1	<2

STATE RIGHT-TO-KNOW**CALIFORNIA Proposition 65**

None

MASSACHUSETTS Right-to-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

EXTRAODINARLY HAZARDOUS SUBSTANCES (=>0.0001%)**UPPER BOUND**

CHEMICAL	CAS NUMBER	CONCENTRATION %
Vinyl Acetate	108-05-4	.05

HAZARDOUS SUBSTANCES (=>1%)**UPPER BOUND**

CHEMICAL	CAS NUMBER	CONCENTRATION %
Acetone	67-64-1	<2

PENNSYLVANIA Right-to-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

HAZARDOUS SUBSTANCES (=>1%)**UPPER BOUND**

CHEMICAL	CAS NUMBER	CONCENTRATION %
Acetone	67-64-1	<2

Toxic Substances Control Act(TSCA) STATUS:

The ingredients of this product are on the TSCA inventory.

SECTION X - SHIPPING INFORMATION

D.O.T. SHIPPING NAME - Coating solution.

D.O.T. I.D. NO. - UN 1139.

HAZARD CLASS - Flammable liquid.

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Prepared By: Joe Morales

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