



### MATERIAL SAFETY DATA SHEET

**I. PRODUCT INFORMATION**

Trade Name: Spray Adhesive 91  
Chemical names, common names: Complex hydrocarbon aerosol mixture.  
Manufacturer's Name: HURST CHEMICAL COMPANY.  
Address: 2500 San Fernando Road, Los Angeles, CA 90065  
DOT CLASSIFICATION: Aerosols, UN 1950, class 9  
Product Information Phone Number: (323) 223-4121  
FOR EMERGENCY, 24 Hour CALL CHEMTREC: 800 424-9300

**II. HAZARDOUS INGREDIENTS**

Chemical Names	CAS Number	Exposure Limits in Air	
		ACGIH (TWA)	OSHA (PEL)
Cyclohexane	110-82-7	300 pm	300 ppm
Liquefied Petroleum Gas	68476-85-7	1000 ppm	1000 ppm
Heptane	142-82-5	400ppm	400ppm
Dimethyl ether	115-10-6	1000ppm	1000ppm
Modified Wood Rosin	64365-17-9	NA	NA
Styrene Butadiene Rubber	26471-45-4	NA	NA

Section IIA - This product contains the following chemicals subject to reporting requirements of SARA 313 and 40 CFR 372.

Listed Ingredients	CAS Number	Weight % Range
Cyclohexane	110-82-7	30-35

**III. PHYSICAL PROPERTIES**

<u>Vapor density (air = 1):</u> >1.0	<u>Specific Gravity:</u> < 1
<u>Solubility in water:</u> <1%	<u>Vapor Pressure(psig):</u> 100 @ 130 F
<u>Evaporation rate (Bu Ac = 1):</u> <1.0	<u>Boiling point °F:</u> n/a
<u>Appearance and odor:</u> Light tan with a solvent odor.	
<u>Volatile Organic Content (VOC):</u> 543 g/l ; 4.52 lb/gal	
<u>Volatile by Weight:</u> 89%	

**IV. FIRE AND EXPLOSION**

**HAZARD RANKING**

HMIS	Health Hazard=2	0=Least	4=Extreme
HAZARD	Flammability=4	1=Slight	
CLASS	Reactivity= 0	2=Moderate	
	Other= Organic Vapor Respirator, Goggles and Gloves	3 = High	

Flash Point, °F: This product considered to be non flammable as described in 16 CFR 1500.45

Flammable limits in air, volume of propellant%: lower 1.8 upper 9.2

<u>Fire extinguishing materials:</u>	<u>No</u> water spray	<u>Yes</u> carbon dioxide	<u>Yes</u> foam
	<u>Yes</u> dry chemical	<u>n/a</u> other	

Special firefighting procedures: : Keep containers cool to protect against bursting or rupturing containers. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers.

Unusual fire and explosion hazards: At elevated temperatures (over 54 °C-130°C) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

**V. HEALTH HAZARD INFORMATION**

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE -

Inhaled: Excessive inhalation of vapors can cause irritation of nose and throat, dizziness,nausea,  
Contact with skin or eyes: Irritation of eyes and skin. Prolonged skin contact may defat the skin and cause dermatitis.  
Allergic reactions may arise in sensitive individuals.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE -**

Acute: Skin, eye, and respiratory tract irritation; defatting of tissue on prolonged contact

Chronic: Cumulative exposure target organs are liver, kidneys and respiratory system.

**FIRST AID: EMERGENCY PROCEDURES -**

Eye contact: Flush eyes immediately with water.

Skin contact: Wash promptly with soap and water.

Inhaled: Remove from exposure to fresh air, apply artificial respiration, if necessary.

Swallowed: Seek medical advice. DO NOT give counter agents or induce vomiting.

carcinogens List: OSHA : NO            NTP: NO            IARC: NO

COMMENTS: Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage (sometimes referred to as solvent or painter's syndrome).

Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

**VI. REACTIVITY DATA**

Stability: Stable under ordinary conditions of use and storage.

Incompatibility (materials to avoid): Strong oxidizers.

Hazardous decomposition products (including combustion products):

Carbon dioxide and carbon monoxide.

Hazardous polymerization: Will not polymerize under ordinary conditions of use and storage.

**VII. SPILL, LEAK, AND DISPOSAL PROCEDURES**

Spill response procedures: Eliminate ignition sources. Contain spills for salvage or disposal. Minimize dilution water to control spill volume. Soak up spill with an inert absorbent and place into a designated disposal container. Avoid run-off into sewers and ditches.

Preparing wastes for disposal: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Consult federal, state, and local regulations controlling proper disposal of hydrocarbon based liquid materials.

**VIII. SPECIAL HANDLING INFORMATION**

Ventilation and engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below established exposure limits, additional ventilation or exhaust systems may be required, where explosive mixtures may be present, electrical systems safe for such locations must be used.

Respiratory Protection: In working atmosphere where TLV or (PEL) levels are exceeded, use NIOSH-approved supplied air respirators to prevent exposure.

Eye Protection: Use chemical safety goggles where solvent splashes are expected.

Gloves: Prevent repeated or prolonged skin contact with nitrile or other solvent resistant gloves.

Other clothing and equipment: Remove non-impervious clothing that becomes wet to prevent fire and irritation source.

Work practices, hygienic practices: Practice personal cleanliness by prompt removal of solvent in contact with skin. Train all employees in special handling procedures prior to working with this product.

**OTHER HANDLING AND STORAGE REQUIREMENTS:**

Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 120F.. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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