

ST-10 - ST-100  
BRITTLE COATING

MATERIAL SAFETY DATA SHEET

REVISION OF: 5/11/90

STRESSCOAT INC.  
1334 N Benson Ave #A  
Upland, CA 91786

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DATE PREPARED: 6/1/96

EMERGENCY ASSISTANCE  
FOR CHEMICAL EMERGENCIES CALL CHEMTREC (800) 424-9300  
-----PRODUCT IDENTIFICATION-----

PRODUCT NAME: ST-10 - ST-100

CAS # MIXTURE

HAZARD RATING (NFPA 49)  
HEALTH: 3  
FIRE: 0  
REACTIVITY: 0  
SPECIAL:

HAZARD RATING SCALE:  
0=MINIMAL 3=SERIOUS  
1=SLIGHT 4=SEVERE  
2=MODERATE

-----HAZARDOUS INGREDIENTS-----  
-----MATERIAL IDENTIFICATION AND INFORMATION-----

MATERIAL	%	PEL-TWA	ACGIG TLV	OTHER
CHLOROMETHANE CAS # 75-09-2	20-50	500ppm	50ppm	1000 ppm ceiling STEL *SUSPECTED CARCINOGEN
CHLOROBROMOMETHANE CAS # 74-97-5	20-50	200ppm	200ppm	N.E.
ROSIN SOAP	10-15	N.E.	N.E.	

NOTE: THE ROSIN SOAP MIXTURE IN THIS PRODUCT IS CONSIDERED NOT HAZARDOUS PER THE OSHA COMMUNICATION STANDARD 29 CFR 1910.1200

-----PHYSICAL PROPERTIES-----

MELTING POINT, DEG F: 100	VAPOR PRESSURE (100 DEG F) : 4.4
BOILING POINT, DEG F: N/A	VAPOR DENSITY (AIR=1) : 3
SPECIFIC GRAVITY (H2O=1) : >1.4	WATER SOLUBILITY, %: INSOLUBLE
APPEARANCE AND ODOR: CLEAR, AMBER LIQUID, SWEED ODOR	EVAPORATION RATE: 1 - 4 (ETHER = 1)

N.E. = NOT ESTABLISHED

N.A. = NOT APPL

-----FIRST AID MEASURES-----  
INHALED: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH  
RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 15  
MINUTES, LIFTING THE UPPER AND LOWER EYELID OCCASIONALLY. GET IMMEDIATE  
MEDICAL ATTENTION.

SKIN CONTACT: BRIEF CONTACT MAY DRY AND DISCOLOR THE SKIN. PROLONGED  
OR REPEATED CONTACT MAY IRRITATE THE SKIN, CAUSING DERMATITIS. MAY BURN  
THE SKIN IF CONFINED THE SKIN. CALL A

PHYSICIAN IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE.  
STROY CONTAMINATED SHOES.

-----FIRST AID MEASURES (CONT)-----

SWALLOWED: CAUSES ABDOMINAL PAIN AND POSSIBLE ASPIRATION  
PNEUMONITIS IF VOMITED. DO NOT INDUCE VOMITING. CALL A PHYSICIAN  
AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY.

NOTES: BECAUSE RAPID ABSORPTION MAY OCCUR THROUGH LUNGS IF  
ASPIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION OF WHETHER TO  
INDUCE VOMITING OR NOT SHOULD BE MADE BY AN ATTENDING PHYSICIAN.  
IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL  
CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST  
TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. IF BURN IS  
PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. EXPOSURE  
MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER  
EMPHATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC  
ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE  
PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

-----HEALTH HAZARD INFORMATION-----

PRIMARY ROUTES OF EXPOSURE: INHALATION, SKIN OR EYE

SIGNS AND SYMPTOMS OF OVER-EXPOSURE;

INHALATION: EXPOSURE MAY CAUSE DROWSINESS AND LOSS OF  
COORDINATION. AT HIGH CONCENTRATIONS MAY CAUSE HEADACHE, NAUSEA,  
AND VOMITING.

EYE CONTACT: CAUSES PAIN AND MODERATE IRRITATION AND POSSIBLE  
REVERSIBLE CORNEAL INJURY.

SKIN CONTACT: SHORT SINGLE EXPOSURE MAY CAUSE SKIN IRRITATION.  
PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION, EVEN A  
BURN. MAY CAUSE MORE SEVERE RESPONSE IF CONFINED.

SWALLOWED: CAUSES ABDOMINAL PAIN AND POSSIBLE ASPIRATION  
PNEUMONITIS.

CHRONIC EFFECTS OF EXPOSURE: REPEATED EXCESSIVE EXPOSURES TO HIGH  
DOSE RATES MAY CAUSE LIVER, KIDNEY AND TESTICULAR INJURY; MAY CAUSE  
CARBOXYHEMOGLOBINEMIA.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PERSONS WITH  
ASTHMA OR HEART DISEASE OR THOSE WHO ARE HEAVY DRINKERS OR SMOKERS  
SHOULD NOT BE EXPOSED TO THIS PRODUCT.

-----TOXICITY DATA-----

MUTAGENICITY: THE METHYLENE CHLORIDE IN THIS PRODUCT IS LISTED  
AS A KNOWN CARCINOGEN BY THE INTL. AGENCY FOR RESEARCH ON CANCER AS A  
PROBABLE HUMAN CARCINOGEN. NOT LISTED BY NATIONAL TOXICOLOGY  
PROGRAM.

TOXICITY DATA: NONE

-----PERSONAL PROTECTION-----

OTHER PRECAUTIONS: BE CAUTIOUS OF EMPTY CONTAINERS WHICH MAY CONTAIN RESIDUE OF MATERIAL. ALWAYS OBEY HAZARD WARNINGS AND HANDLE CONTAINERS AS IF THEY WERE FULL.

-----ADDITIONAL INFORMATION-----

CONTACT MSDS COORDINATOR DURING BUSINESS HOURS, PACIFIC TIME  
(909) 981-7444

-----OTHER REGULATORY INFORMATION-----

DOT SHIPPING NAME: DICHLOROMETHANE, UN-1593  
DOT LABEL: KEEP AWAY FROM FOOD STUFFS  
ATA INFO: SAME AS ABOVE  
PS INFO: RESTRICTED FOR TRANSPORT ON AIRCRAFT  
CRA INFO: HAZARDOUS WASTE F001, F003, F005  
SHA & ACGIH HAZARD LIST: CONSIDERED HAZARDOUS  
ARA TITLE III: INGREDIENTS IN THIS PRODUCT ARE SUBJECT TO REGULATIONS OF THIS TITLE.  
SCA: REGULATED

-----NOTICE-----

BULLETIN SUCH AS THIS CANNOT BE EXPECTED TO COVER ALL POSSIBLE INDIVIDUAL SITUATIONS. AS THE USER HAS THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE, ALL ASPECTS OF AN INDIVIDUAL OPERATION SHOULD BE EXAMINED TO DETERMINE IF, OR WHERE, PRECAUTIONS, IN ADDITION TO THOSE DESCRIBED HEREIN, ARE REQUIRED. ANY HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN SHOULD BE PASSED ON TO YOUR CUSTOMERS OR EMPLOYEES, AS THE CASE MAY BE. WE MUST RELY ON THE USER TO UTILIZE THE INFORMATION WE HAVE SUPPLIED TO DEVELOP WORK PRACTICE GUIDELINES AND EMPLOYEE INSTRUCTIONAL PROGRAMS FOR THE INDIVIDUAL OPERATION AND REGULATIONS.

DISCLAIMER OF LIABILITY:

THE OPINIONS EXPRESSED HEREIN ARE BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF THE USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THIS CORPORATION, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY OF DAMAGES INCURRED BY THE USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS WHICH EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. USERS OF ANY CHEMICAL SHOULD SATISFY THEMSELVES THAT THE CONDITIONS AND METHODS OF USE ASSURE THAT THE CHEMICAL IS USED SAFELY. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

VENTILATION: LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MAINTAINING EMISSIONS AT THE POINT OF USE BELOW THE PEL.

RESPIRATORY PROTECTION: APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR REQUIRED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. FOR EMERGENCIES, A POSITIVE PRESSUR, SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

EYE PROTECTION: SAFETY GLASSES AS MINIMUM PROTECTION. SAFETY SHOWER AND EYE FOUNTAIN NEAR WORK AREA.

PROTECTIVE CLOTHING: CLEAN, BODY COVERING CLOTHING, INCLUDING CHEMICAL RESISTANT GLOVES.

OTHER PROTECTIVE MEASURES: NONE

-----FIRE AND EXPLOSION INFORMATION-----

FLASH POINT, DEG F: NONE                      FLAMMABLE LIMITS IN AIR, %  
METHOD USED: N.A.                              LOWER: N.A.            UPPER: N.A.

EXTINGUISHING MEDIA: THIS MATERIAL IS NOT COMBUSTIBLE USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES: CAN DECOMPOSE TO TOXIC PRODUCTS IN A FIRE.

-----HAZARDOUS REACTIVITY-----

STABILITY: STABLE                              POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: OPEN FLAMES, WELDING ARCS, OR OTHER HIGH TEMPERATURE SOURCES WHICH MAY INDUCE THERMAL DECOMPOSITION.

MATERIALS TO AVOID: ALUMINUM, MAGNESIUM, AND ZINC UNLESS INHIBITED. ALKALIS; OXIDIZING MATERIALS, WATER, AND MOIST AIR.

HAZARDOUS DECOMPOSITON PRODUCTS: MAY LIBERATE CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE, CHLORINE, OR PHOSGENE.

-----SPILL, LEAK, AND DISPOSAL PROCEDURES-----

SPILLS OR LEAKS: AVOID HEAVY CONCENTRATION OF VAPORS. WEAR APPROPRIATE PROTECTIVE EQUIPMENT, AND USE SUITABLE CHEMICAL SPILL EQUIPMENT TO CONTAIN AND CLEAN-UP SPILL.

DISPOSAL METHODS: DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

-----SPECIAL PRECAUTIONS-----

STORAGE & HANDLING: STORE IN A COOL, DRY, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. VENT CONTAINER FREQUENTLY TO RELIEVE PRESSURE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

REPAIR & MAINTENANCE: DO NOT CUT, GRIND, WELD, OR DRILL ON OR NEAR THIS CONTAINER