

EMERGENCY TELEPHONE (310) 693-0872  
(MONDAY THROUGH FRIDAY 7AM - 4PM) PACIFIC COAST TIME

FOR TRANSPORTATION RELATED SPILLS & EMERGENCIES  
CALL CHEMTREC 1-800-424-9300  
GIVE DOT CLASSIFICATION NUMBER-SECTION IV

MSDS SAFETY DATA SHEET NPCA 1-72

For coatings, resins and related materials.  
(Approved by U.S. Department of Labor (similar)-Form OSHA-20)

REVISION DATES - FEB 1990, AUGUST 1990, FEB 1993, JUNE 10, 1994.  
UPDATED - JUNE 10, 1994

SECTION I

Manufacturer's Name: C.A. Schroeder, Inc./CASCO  
Street Address: 1318 First Street, Sanferando, Ca. 91340  
Emergency telephone #: (310) 693-0872 (800) 559-5525-CA ONLY

Product Class: LATEX EMULSION ADHESIVE

Manufacturer's Code Identification: 2189

Trade Name: CASCO - FLEX

COLOR NAME: GRAY

SECTION II-HAZARDOUS INGREDIENTS & OTHERS

INGREDIENT CAS#	PERCENT BY WEIGHT	TLV PPM	OSHA PEL mg/M3	VAPOR LEL	OSHA PEL mg/M3	VAPOR PRESSURE-TEMP.
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BARIUM METABORATE MONOHYDRATE

(CAS# 13701-59-2) LT 3% N/A 10 N/A N/A N/A N/A

LD50=0.85g/kg low single dose oral toxicity; dermal LD50 is greater than 2 g/kg; Inhalation LC50 is greater than 21.70 mg/L, the maximum attainable in test air. Irritating to eyes, not to skin. Not expected to cause sensitization due to lack of dermal absorption. Nuisance dust not expected to be present due to nature of product formulation.

2,2,4-Trimethyl-1, 3-pentanediol monoisobutyrate (ESTER ALCOHOL)

(CAS# 25265-77-4) LT 1% NE NE NE NE NE 1mmHg@68degF

ODOR=MILD, LEL300degF-.62%vol / UEL394degF4.24%vol

Vapor Pressure@20degF=0.010mmHg // Oral LD50(rat):6.86mL/kg

Skin sensitization(guinea pig): none // Inhalation LC-50 (rat):>3.55mg/L/6hours (highest concentration tested)

PROPYLENE GLYCOL

(CAS# 57-55-6) LT 1% NE NE NE NE NE N/A

DOT HAZARD CLASS=NOT REGULATED // NO INHALATION HAZARD IDENTIFIED FROM DATA FOUND. NO SKIN ABSORPTION HAZARD FROM DATA FOUND. NO SKIN IRRITATION FROM DATA FOUND. IN INGESTION HAZARD FROM DATA FOUND. NO CHRONIC HEALTH EFFECTS ARE EXPECTED FROM NORMAL USE.

(CAS#7732-18-5) 30-40% NA NA NA NA NA NA

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**LATEX EMULSION RESIN BLEND - PROPRIETARY**

(CAS# mixture) 50-75% NE NE NE NE NE NE

NO SPECIAL HANDLING OR PRECAUTIONS REQUIRED. NOT D.O.T. HAZARD MATERIAL. NOT A HAZARDOUS MATERIAL UNDER CURRENT DEPT. OF LABOR SPECIFICATIONS.

EFFECTS OF OVEREXPOSURE; NONE OBSERVED BY INHALATION.

AVOID BREATHING SPRAY MISTS.

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**OTHER INGREDIENTS FOUND IN THIS PRODUCT ARE EITHER NOT HAZARDOUS BY DEFINITION OR THEY ARE FOUND AT LEVELS UNDER THE REPORTING REQUIREMENTS OF THIS DOCUMENT.****SUSPECTED CANCER AGENT?** NO-This product's ingredients are not found on the following lists / Federal OSHA / NTP / IARC.

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**SECTION III-PHYSICAL DATA****Boiling Range:** 212 degrees F**Vapor Density:** Heavier than air**Evaporation Rate:** Slower than ether**% Volatile by Volume:** 46%**Weight per Gallon:** 9.90 +/- .15**V.O.C. (grams/liter)****(excluding water):** 41.00**V.O.C. (grams/liter)****material as supplied:** 23.00

THIS PRODUCT CONTAINS VERY LOW CONCENTRATIONS OF REACTIVE ORGANIC COMPOUNDS (0.19 LBS PER GALLON) AND IS CLASSIFIED AS "NON-PHOTOCHEMICALLY REACTIVE".

**ODOR:** Very low odor, similar to low odor latex paint or latex adhesive.**Product tested** as a whole or **calculated** from ingredients: -CALCULATED-

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**SECTION IV-FIRE & EXPLOSION HAZARD DATA****Dot Category:** NON-COMBUSTIBLE (AQUEOUS SYSTEM)**Flash Point:** 212degF or above**LEL:** N/A **UEL:** N/A**Extinguishing Media:** FOR RESIDUAL SOLIDS, USE WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL.**Unusual Fire & Explosion Hazards:** CLOSED CONTAINERS MAY EXPLODE DUE TO THE BUILD UP OF STEAM PRESSURE WHEN EXPOSED TO EXTREME HEAT.**Special Fire Fighting Procedures:** IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. USE WATER TO COOL CLOSED CONTAINERS. WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURED-DEMAND, MSHA/NIOSH-APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

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**SECTION V - HEALTH HAZARD****Threshold Limit Value:** SEE SECTION II**Symptoms and Effects of Short Term Exposure:****Swallowing:** Unknown.**Inhalation:** Inhalation of material atomized by spray equipment (**spray mists**) may cause mild respiratory irritation. Normal and other use of

material is not known to cause irritation.

Eye: Liquid splashed into the eye may cause transient eye irritation.

Skin: May cause transient skin irritation.

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Symptoms and Effects of Repeated Overexposure: (The chronic or long term effects resulting from exposures above those listed in Section II.) Prolonged or overexposure skin contact may cause reddening and/or irritation of skin. All other effects UNKNOWN.

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Pre-existing eye, skin, or allergies may be aggravated by exposure. Spray mists may aggravate pre-existing respiratory ailments.

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Emergency & First Aid Procedures:

INHALATION: Remove from spray mist exposure. Provide plenty of fresh air.

SPLASH(EYES): Flush immediately with large amounts of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Take to a physician for medical treatment.

SPLASH(SKIN): Remove with soap and water. Remove contaminated clothing. Supply copious amounts of fresh water the skin areas to rinse material away.

INGESTION (SWALLOWING): If swallowed, induce vomiting immediately by giving one or two glasses of water and sticking finger down throat. Consult physician, hospital emergency room, or poison control center immediately. (NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON).

NOTES TO PHYSICIAN: Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

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SECTION VI - REACTIVITY DATA

Stability: STABLE

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition Products: N/A

Hazardous Polymerization: WILL NOT OCCUR

Conditions to Avoid: N/A

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SECTION VII - SPILL OR LEAK PROCEDURES  
ENVIRONMENTAL INFORMATION

Steps to be taken in case material is released or spilled: CONFINE IN SMALL AREA; CONTAIN & REMOVE WITH INERT ABSORBENT. PLACE IN PROPER CONTAINER FOR DISPOSAL.

Waste Disposal Method: PLACE CONTAMINATED MATERIAL IN SUITABLE SEALED METAL CONTAINERS FOR DISPOSABLE. DO NOT INCINERATE CLOSED CONTAINERS. USE NON-LEAKING CONTAINERS, SEAL TIGHTLY AND LABELED PROPERLY. DO NOT POUR CONTAMINATED PAINT BACK INTO UNUSED PAINT. DO NOT THROW LIQUID PAINT INTO THE TRASH. WHERE IS IT IS ALLOWED BY LOCAL LAWS (CHECK WITH LOCAL REGULATORY AGENCIES); ALLOW LIQUID WASTE MATERIALS TO DRY OUT BEFORE DISPOSING INTO TRASH CONTAINERS. TAKE ALL LIQUID UNUSED PAINT THAT CANNOT BE USED TO APPROVED RECYCLING CENTERS, PAINT ROUNDUPS, OR COUNTY FACILITIES THAT ARE APPROVED TO TAKE UNUSED PAINT AT COLLECTION SITES. CONTACT STATE, COUNTY, CITY HEALTH SERVICES, OR FIRE DEPARTMENTS; TO FIND NEAREST COLLECTION CENTERS. DO NOT DISPOSE OF WASTE INTO WATER STREAMS OR STORM WATER SEWERS. DO NOT MIX WITH OTHER KINDS OF WASTE. DISPOSE ALL WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA Classification: AS PRODUCED, THIS PRODUCT IS NOT A WASTE. IF DISCARDED AS IS, IT IS NOT CLASSIFIED A "HAZARDOUS" WASTE UNDER RCRA. THIS PRODUCT IS NOT IGNITABLE, CORROSIVE, REACTIVE, OR TOXIC; THEREFORE IS NOT DEFINED AS HAZARDOUS BY EPA.

Environmental Hazards: NONE KNOWN.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: If applied by spraying, use an appropriate, properly fitted NIOSH/MSHA approved respirator to remove spray mist. Good room (mechanical) room ventilation should be sufficient protection against extremely small amount of vapors from product. If further protection is desired or if persons are sensitive to vapors, use a respirator with a NIOSH/MSHA approval number TC-23C-860 or TC-23C-87 or an equivalent. Refer to OSHA 29 CFR 1910.134, "Respiratory Protection".

Ventilation: General (mechanical) room ventilation is expected to be satisfactory.

Protective Gloves: NONE REQUIRED UNDER MOST CONDITIONS. If protection is desired, Plastic or Latex Rubber will provide adequate protection. Persons with sensitive skin should use protection. Extra long term exposure may require a heavier glove made out of Nitrile Rubber.

Eye Protection: Safety glasses if splashing may occur. Safety glasses should have side shields for splash protection. Wear face shield as necessary when spraying.

Other Protection: Eye wash as a precautionary measure. Other equipment not likely to be needed.

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SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: SHOULD BE STORED AT ROOM TEMPERATURE TO PROLONG SHELF LIFE. KEEP FROM FREEZING. KEEP CONTAINER CLOSED.

OTHER PRECAUTIONS - KEEP OUT OF REACH OF CHILDREN.  
DO NOT TAKE INTERNALLY.  
DO NOT GET IN EYES.

AVOID PROLONGED SKIN CONTACT.  
PREVENT PROLONGED OR REPEATED BREATHING OF  
SPRAY MIST.

HYGIENIC PRACTICES - WASH HANDS BEFORE EATING OR USING THE WASHROOM.

NOTICE: the data and recommendations presented herein are based upon our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made, however, and the product discussed are distributed without warranty, expressed or implied, and the person receiving said product shall make his own determination of the suitability thereof for his particular purpose.

LEGEND OF ABBREVIATIONS:

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|---------------------------------------------|-------------------------------------------|
| PPM =parts per million                      | LEL = lower explosion level               |
| MG/M3 = milligrams per cubic meter          | UEL = upper explosion level               |
| N/E or NE = none established                | VOC or V.O.C.= volatile organic compounds |
| N/A or NA = not applicable or not available | LT= LESS THAN                             |
| TCC = tag closed cup                        | GT= GREATER THAN                          |

\*\*\*\*\* END OF MSDS \*\*\*\*\*