



adhesive Resin

MATERIAL SAFETY DATA SHEET

Emergency Telephone (614) 431-6600

Borden, Inc. Packaging and Industrial Products Division 180 EAST BROAD STREET, COLUMBUS, OHIO 43215

THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200 REQUIRES THAT THE INFORMATION CONTAINED ON THESE SHEETS BE MADE AVAILABLE TO YOUR WORKERS. INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY. FOR INDUSTRIAL USE ONLY

SAUDER MFG CO INC ATTN: 200 HORTON STREET STRYKER, OH 43557

NON-EMERGENCY TELEPHONE (503) 746-8461

DESCRIPTION: CASCO-RESIN CR-583 PRODUCT TYPE: LIQUID UF RESIN APPLICATION: HIGH TACK RESIN FOR PLYWOOD

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SIGNAL WORD CAUTION!

This material presents possible health hazards as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

CHEMICAL HAZARD RATING HEALTH=1(slight) FIRE=0(least) REACTIVITY=1(slight) CHRONIC=*

29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS CAS/REGISTRY NO. MATERIAL DESCRIPTION % RANGE

The ingredients listed below have been associated with one or more of the listed immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING OR HANDLING, READ AND UNDERSTAND THE MSDS.

50-00-0 *FORMALDEHYDE NOTE REVISED OSHA PEL 0.1-1

POTENTIAL CANCER HAZARD. Rats chronically exposed to 14 ppm formaldehyde contracted nasal cancers. Based on animal data and limited epidemiological evidence, NTP and IARC have listed formaldehyde as a probable human carcinogen. OSHA regulates formaldehyde as a potential human carcinogen.

May cause allergic skin reaction. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory and skin disorders may be aggravated by exposure.



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29CFR1910.1200 HAZARDOUS INGREDIENTS/REPORTED HEALTH EFFECTS
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OSHA has identified 0.5 ppm as the "Action Level", 29CFR 1910.1048. Please refer to the OSHA Standard for guidance applicable to your specific operations.

OSHA has stated that a concentration of 100 ppm is immediately dangerous to life and health and that the odor threshold for formaldehyde is 0.8-1 ppm, OSHA Occupational Exposure to Formaldehyde, 59 Fed. Reg. 22290, et seq.

ACGIH TLV: 0.3 PPM (0.37 MG/M3) CEILING
OSHA PEL: 0.75 PPM(0.9 MG/M3) TWA; 2 PPM(2.5MG/M3)15MIN STEL
NIOSH DOCUMENT NUMBER: 77-126

PHYSICAL DATA

FORM FREE UF WAMTA 10.1 <0.5%
STORAGE LIFE @ 70F 3 MONTHS @ 21C (70F)
PH @ 25C ~8.0 @ 25C
CONTENT OF VOLATILE ORGANICS (VOC) VOC EQUALS 9 GMS/LITERS LESS WATER
APPEARANCE CLEAR/HAZY LIQUID
COLOR COLORLESS/WHITE
ODOR LITTLE OR NONE
DOT 49CFR-172.101 ORM-E RQ FORMALDEHYDE
BOILING POINT ~102C
EVAPORATION RATE ~0.3 (N-BUTYL ACETATE=1)
FLASH POINT NOT APPLICABLE
FREEZING POINT <-10C
AUTOIGNITION TEMPERATURE NOT APPLICABLE
LOWER EXPLOSION LIMIT NOT APPLICABLE
PERCENT VOLATILE BY WEIGHT ~35% @ 105C
SOLUBILITY IN WATER SEE STORAGE SECTION
SPECIFIC GRAVITY ~1.29
UPPER EXPLOSION LIMIT NOT APPLICABLE
VAPOR DENSITY NOT APPLICABLE
VAPOR PRESSURE ~0.1 MM HG @ 20C

IMMEDIATE HEALTH HAZARD DATA

SKIN ABSORPTION: No hazards known to Borden.
INGESTION: Not expected to be harmful under normal conditions of use.
INHALATION: Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.
SKIN: May cause irritation on prolonged or repeated



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IMMEDIATE HEALTH HAZARD DATA

contact.
EYES: May cause irritation on prolonged or repeated
contact.

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HANDLING PRECAUTIONS

INHALATION: Avoid prolonged or repeated breathing of
vapor.
SKIN: Avoid prolonged or repeated contact with
skin.
EYES: Avoid prolonged or repeated contact with
eyes.
Handle in accordance with good industrial hygiene and
safety practices. These practices include avoiding
unnecessary exposure and removal of the material from
eyes, skin and clothing.
Wash thoroughly after handling.

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EMERGENCY AND FIRST AID PROCEDURES

INGESTION: If accidentally swallowed, dilute by
drinking large quantities of water. Immediately contact
poison control center or hospital emergency room for
any other additional treatment directions.
INHALATION: Remove to fresh air.
SKIN CONTACT: In case of irritation, flush with
water.
EYE CONTACT: Immediately flush eyes with plenty of
water. Call a physician if irritation persists.

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FIRE AND EXPLOSION HAZARD DATA

Will not burn unless water has evaporated.
In case of fire, water should be used to keep fire-
exposed containers cool.

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REACTIVITY DATA

Normally stable, but may become unstable at high
temperatures or may react with water.
Hazardous polymerization:
May occur.
Decomposition products may include:
CO, CO2, aldehydes (including formaldehyde), hydrogen
cyanide, particulate matter and other organic
compounds.

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CONTROL MEASURES

If airborne contaminants are generated when the
material is heated or handled, sufficient ventilation
in volume and air flow patterns should be provided to
keep air contaminant concentration levels below



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CONTROL MEASURES

acceptable criteria.

PERSONAL PROTECTION INFORMATION

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA 29 CFR 1910.134 or other applicable standards or guidelines.

SPILL OR LEAK PROCEDURES

Large quantities: Enclose with diking material to prevent seepage into natural bodies of water, then consult Borden, Inc.
Small quantities: Soak up with absorbent material and remove to a chemical disposal area.

WASTE DISPOSAL

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

STORAGE PRECAUTIONS

NOTES

Not harmed by freezing, but thaw frozen resin slowly and stir before using. Store in a cool place. High temperatures shorten storage life. Urea formaldehyde resin thickens with age. Rotate stock in storage to use oldest first. Limited storage life - Refer to product specifications. Solubility in water of urea resins can vary from infinite to insoluble depending on manufacturing procedure and age. Warm water helps in washing up resins with limited solubility.

TRANSPORT INFORMATION

Not Regulated.

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SARA TITLE III SECTION 313 AND 40 CFR Part 372 TOXIC CHEMICAL NOTIFICATION SHEET

CASCO-RESIN CR-583

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

CAS Registry Number	Chemical Name	Pct. By Weight
50-00-0	FORMALDEHYDE	0.40

This Toxic Chemical Notification Sheet must not be detached from the Material Safety Data Sheet (MSDS). Any copying and redistribution of the MSDS shall include copying and redistribution of this notification sheet attached to copies of the MSDS subsequently redistributed.

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