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

SAUER MFG CO INC
ATTN: NON-EMERGENCY TELEPHONE
200 HORTON STREET (503) 746-8461
STRYKER, OH 43557

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

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
===============================================================================

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.
MATERIAL SAFETY DATA SHEET

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

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

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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 (2.5 mg/m3) 15MIN STEL

DOCUMENT NUMBER: 77-126

PHYSICAL DATA
FORM FREE UF WAMTA 10.1
STORAGE LIFE @ 70F 3 MONTHS @ 21C (70F)
PH @ 25C < 0.5%
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
BOILING POINT "0.3 (N-BUTYL ACETATE=1)
EVAPORATION RATE "102C
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

Order #134260 Ship to #62882024

DISCLAIMER-SEE REVERSE SIDE

READ NEXT PAGE
DESCRIPTION: CASCO-RESIN CR-583
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IMMEDIATE HEALTH HAZARD DATA

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

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.

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.

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.

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.

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 dikeing 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.

040 12-CS83,  PREVIOUS ISSUE: 13-AUG-93  CURRENT ISSUE: 18-AUG-93
PRINT DATE: 03-Sep-93  04:02 PM

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Disclaimer—See Reverse Side
MATERIAL SAFETY DATA SHEET
Borden, Inc.
Packaging and Industrial Products Division
180 EAST BROAD STREET, COLUMBUS, OHIO 43215

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.

<table>
<thead>
<tr>
<th>CAS Registry Number</th>
<th>Chemical Name</th>
<th>Pct. By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-00-0</td>
<td>FORMALDEHYDE</td>
<td>0.40</td>
</tr>
</tbody>
</table>

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.

PRINT DATE: 03-Sep-93 04:02 PM