

MATERIAL SAFETY DATA SHEET

KOHL & MADDEN
A Division of Sun Chemical Corporation
 30110 S. WIXOM RD
 WIXOM, MI 48393

MSDS Distribution:
 Regulatory Information: (201) 933-4500
 Emergency Phone No.: (201) 804-8228
 (24 hours)

1. PRODUCT IDENTIFICATION

Product Name	SF123BBF29
Product Description	OS PANT 123 YELLOW COATAB
Product Category	No-heat Sheetfed Paper Ink
MSDS Identification No.	000000910263
MSDS Date	04/09/05

2. COMPOSITION (Hazardous Components)

This product does not contain any hazardous ingredients required to be listed under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. PRODUCT HAZARDS IDENTIFICATION**Potential Health Effects**

Dermal contact is expected to be the primary route of occupational exposure. The following statements are based upon an assessment of the health effects associated with the components present in this product mixture.

Eye

This product may cause mild transient eye irritation. Direct contact may cause redness, tearing and stinging.

Skin

Brief contact with this product should not result in skin irritation. Prolonged or repeated exposure may remove the skin's natural oils resulting in redness, itching and drying of the skin.

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Inhalation

This product is not expected to cause respiratory tract irritation under conditions of intended use.

Ingestion

Ingestion of amounts incidental to normal industrial handling are unlikely to cause adverse health effects. Deliberate ingestion of excessive quantities may result in gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Please see Section 14 for additional details.

Medical Conditions Aggravated by Exposure

Preexisting skin disorders may be aggravated by exposure to this product.

4. FIRST AID MEASURES

Eye Contact

In case of direct contact, flush eyes with clean water for at least 15 minutes. Seek medical attention if irritation or redness develops and persists.

Skin Contact

Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation or redness develops and persists.

Inhalation

If breathing difficulties develop, remove affected person away from source of exposure into fresh air. Seek medical attention.

Ingestion

Ingestion is an unlikely route of exposure under normal industrial conditions. However, if appreciable quantities of this product are accidentally swallowed, seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash Point (degree F)	Equal or greater than 200 F (Closed Cup)
Flash Point Category (OSHA/NFPA)	IIIB
Lower Flammability Limit in Air (% by Vol)	Not Determined

NOTE : Flash point value/category has been derived from testing of products of similar composition.

Extinguishing Media

Extinguish with a multipurpose fire fighting foam, dry chemical or carbon dioxide.

RE : SF3BB61R - OS PANT RUBINE RED COATAB

KOHL & MADDEN
A Division of Sun Chemical Corporation
30110 S. WIXOM RD
WIXOM, MI 48393

April 09, 2005

HEALTH AND SAFETY DEPT
DELTA COLLEGE/PRINT SHOP
BAY COUNTY
UNIVERSITY CENTER, MI 48710
UNITED STATES OF AMERICA

Dear Customer:

The Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard requires employers to inform their personnel of the hazards of chemicals used in the workplace. Material Safety Data Sheets (MSDS) are one means required by OSHA to provide the necessary information.

As part of Sun Chemical's program to communicate health and safety information to our customers, we have enclosed our most current Material Safety Data Sheet. This MSDS meets the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

In addition, Section 13 of the enclosed MSDS provides supplier notification information required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 (40 CFR 372). This legislation (also referred to as SARA, the Superfund Amendments and Reauthorization Act) requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories.

We would like to remind you that OSHA regulations require information contained in this MSDS to be communicated and made accessible to your employees. We suggest you read the enclosed material and forward it to the appropriate personnel within your company. Any copies or other redistribution of the data sheet must include the EPCRA Section 313 supplier notification.

In accordance with these regulations and Sun Chemical's hazard communication program, we will continue to forward updated MSDS's to your attention for those products which you purchase. Additional copies of the enclosed MSDS and product specifications may be obtained by calling . Should you have any questions related to the content of the data sheet or for additional compliance information please contact our Regulatory Group at (201) 933-4500. Emergency health or spill response information can be obtained by calling (201) 804-8228 (24 hours).

MSDS Distribution Department

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WIXOM, MI 48393

MSDS Distribution:
Regulatory Information: (201) 933-4500
Emergency Phone No.: (201) 804-8228
(24 hours)

1. PRODUCT IDENTIFICATION

Product Name	SF3BB61R
Product Description	OS PANT RUBINE RED COATAB
Product Category	Sheetfed Ink
MSDS Identification No.	000000910223
MSDS Date	04/09/05

2. COMPOSITION (Hazardous Components)

This product does not contain any hazardous ingredients required to be listed under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. PRODUCT HAZARDS IDENTIFICATION

Emergency Overview

Material may be irritating to skin.
Aspiration hazard if swallowed.

Potential Health Effects

Dermal contact is expected to be the primary route of occupational exposure. The following statements are based upon an assessment of the health effects associated with the components present in this product mixture.

Eye

This product may cause mild transient eye irritation. Direct contact may cause redness, tearing and stinging.

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Skin

This product may cause mild to moderate skin irritation. Prolonged or repeated exposure may result in contact dermatitis which is characterized by redness, itching, drying and/or cracking of the skin.

Inhalation

This product is not expected to cause respiratory tract irritation under conditions of intended use.

Ingestion

Ingestion of this product may cause headache, nausea, dizziness, loss of coordination and fatigue.

This product contains component(s) that may present an aspiration hazard. Small amounts of this liquid drawn into the lungs during ingestion or vomiting may cause pulmonary injury.

Chronic Effects

This product contains a petroleum middle distillate. Please see Section 14.

Medical Conditions Aggravated by Exposure

Preexisting skin disorders may be aggravated by exposure to this product.

4. FIRST AID MEASURES

Eye Contact

In case of direct contact, flush eyes with clean water for at least 15 minutes. Seek medical attention if irritation or redness develops and persists.

Skin Contact

Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation or redness develops and persists.

Inhalation

If breathing difficulties develop, remove affected person away from source of exposure into fresh air. Seek medical attention.

Ingestion

Ingestion is an unlikely route of exposure under normal industrial conditions. However if appreciable quantities of this product are accidentally swallowed, do not induce vomiting. Seek immediate medical attention. Aspiration of liquid into the lungs can be fatal. If vomiting occurs, keep head below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

Flash Point (degree F)	Equal or greater than 200 F (Closed Cup)
Flash Point Category (OSHA/NFPA)	IIIB
Lower Flammability Limit in Air (% by Vol)	1.1

NOTE : Flash point value/category has been derived from testing of products of similar composition.

Extinguishing Media

Extinguish with a multipurpose fire fighting foam, dry chemical or carbon dioxide.

Fire Fighting Instructions

The use of self-contained breathing apparatus is recommended for firefighters. Water spray may be used to cool containers exposed to heat near flame. Avoid spreading burning liquid with water used for cooling purposes.

Fire and Explosion Hazards

This product will support combustion and may be ignited by extreme heat or flame. Closed containers may build up pressure and rupture when subjected to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away from spill area. Ventilate area of spill; use appropriate personal protective equipment.

For large spills, contain the spill by diking with sand or other inert material. Keep out of drains, sewers or waterways. Transfer product to suitable containers for recovery or disposal. Do not flush area with water. If necessary, follow emergency response procedures.

For small spills; do not flush with water; use an inert absorbent material.

7. HANDLING AND STORAGE

Keep containers tightly closed. Keep containers cool and dry. Protect from freezing. Use and store this product with adequate ventilation. Use appropriate protective equipment when handling this product and maintain good personal hygiene practices.

This product contains vegetable oil ingredients. Rags or waste paper containing natural, oxidizing vegetable oils can burn spontaneously. Store wiping rags containing this product in metal cans with tight lids.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate general (dilution) and/or local exhaust ventilation. It is suggested that a source of clean water be made available in work area for flushing eyes and skin.

Personal Protective Equipment

Eye / Face Protection

The use of chemical splash goggles or safety glasses is recommended to prevent eye contact.

Skin Protection

The use of impermeable, solvent resistant gloves is advised to prevent skin contact. Use chemical resistant apron if splash hazard exists.

Respiratory Protection

Respiratory protection is typically not required under conditions of normal use. However, unusually high concentrations of vapor may require respiratory protection.

Established Exposure Guidelines

No ACGIH or OSHA exposure guidelines have been established for any of the components in this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point / Range (degree F)	480 F - 575 F
Typical Density (lbs/gal)	8.55
Vapor Density (excluding water) vs. Air	Heavier
Evaporation Rate (vs. Butyl Acetate)	Slower
Appearance	Red Paste
Volatile Organic Compounds (wt%) - EPA Method 24	16.95
NOTE : Value derived from Method 24 data on components.	

10. STABILITY AND REACTIVITY

Stability

Stable. Hazardous polymerization will not occur.

Conditions to Avoid

Keep product away from heat, sparks, and open flames.

Incompatibility

This product is incompatible with strong acids or bases and oxidizing agents.

Hazardous Decomposition Products

By high heat and fire: carbon dioxide, carbon monoxide and/or oxides of nitrogen and sulfur.

11. TOXICOLOGY OF COMPONENTS

Toxicological information is presented only for the hazardous components identified in Section 2 of the MSDS.

12. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, county, state and federal environmental regulations. Do not introduce this product directly into public sewer systems.

Emptied containers may retain product residues, all precautions given in this data sheet should be observed.

13. REGULATORY INFORMATION**Toxic Substances Control Act (TSCA)**

The chemical components of this product are listed or have been registered for inclusion on the Section 8(B) Chemical Substance Inventory List (40 CFR 710).

EPCRA Section 313 Supplier Notification

This product contains the following substance(s) which are subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Chemical / Category	CAS #	Concentration (wt %)
Cobalt Compounds .16 % - Cobalt	Not Applicable	1.35

Clean Air Act Amendment (HAPs)

This product does not contain any substances which are defined as Hazardous Air Pollutants under Title III of the Clean Air Act Amendments of 1990.

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Clean Air Act Amendment (ODC's)

This product does not contain and is not manufactured with any of the ozone depleting chemicals listed under Section 602 of the Clean Air Amendments of 1990.

California Proposition 65

This product does not contain any chemicals which are defined by the state of California to cause cancer and/or reproductive toxicity.

CONEG

This product is certified to be in full compliance with CONEG Model Toxics Legislation for packaging and packaging components.

OSHA Hazard Communication Label for Product

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS COMPONENTS AS DEFINED BY OSHA, 29 CFR 1910.1200

MAY CAUSE SKIN IRRITATION

ASPIRATION HAZARD IF SWALLOWED

Please refer to the MSDS for more details.

Keep away from heat and flame.

Keep containers closed.

Use with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Use appropriate personal protective equipment.

Wash thoroughly after handling.

FIRST AID : In case of contact, flush eyes or skin with plenty of water.

Remove contaminated clothing. Seek medical attention if irritation develops or persists. If inhaled, remove to fresh air. Seek medical attention if breathing difficulties develop.

IN CASE OF FIRE, use a multipurpose fire fighting foam, dry chemical or carbon dioxide.

Empty containers may retain product residues, all hazard precautions given on this label should be observed.

DO NOT REMOVE THIS LABEL.

14. ADDITIONAL COMMENTS

This product contains a petroleum middle distillate. Similar composition middle distillates have been found to be weakly to moderately tumorigenic in mouse skin painting bio-assays. It is suspected these tumors may be due part to chronic skin irritation resulting from continuous contact with the test substance.

The International Agency for Research on Cancer has concluded that light and intermediate middle distillates are Group 3 substances, "not classifiable as to their carcinogenicity to humans," based on inadequate human and inadequate animal evidence.

This material is not carcinogenic according to the OSHA Hazard Communication Standard.

Hazardous Materials Information System (HMIS)

Health 1

Flammability 1

Reactivity 0

NOTICE : These ratings are intended only for the immediate and general identification of acute hazards. Sun Chemical is providing this information on a voluntary basis as a guide for our customers. The use and interpretation of this information may vary from company to company. All information contained in this data sheet should be considered in order to adequately deal with the safe handling of this material.

Revision Date

01/21/05

The information presented in this data sheet represents a compilation of information generated from our suppliers and other recognized sources of scientific evidence and chemical information. To the best of our knowledge and belief, it is accurate and reliable as of the date of issue. However, no warranty, express or implied, including any warranty of merchantability, fitness for any use, or any other guarantee is offered or implied regarding the accuracy of such data, the results to be obtained from the use thereof, the safety of this product, or the hazards connected with the use of this material. Since the conditions of handling and use of this material are beyond our control, Sun Chemical shall assume no liability for damages incurred by the use of the material. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability and completeness of this information, the safety measures necessary to handle this product, and the actions needed to comply with all applicable Federal, State, and Local Legislation.

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VOLATILE COMPONENT INFORMATION

US EPA
Designate

A. Product Density:

1.) 8.55 LB Product /gal Product = (Dc)s

B. Nonvolatile Content:

1.) 83.05 Weight percent of nonvolatiles in product = (Wn)s

2.) 79.43 Volume percent of nonvolatiles in product = (Vn)s

3.) 8.94 Density, lb nonvolatiles/gal nonvolatiles = (Dn)s

C. Volatiles:

1.) 16.95 Weight percent of total volatiles in product = (Wv)s

2.) 7.05 Density, lb volatiles/gal volatiles = (Dv)s

D. Water Content:

1.) 0.00 Weight percent of water in product = (Ww)s

2.) 0.00 Volume percent of water in product = (Vw)s

E. Organic Volatiles, (VOCs):

1.) 16.95 Weight percent of organic volatiles in product = (Wo)s

2.) 20.58 Volume percent of organic volatiles in product = (Vo)s

3.) 7.05 Density, lb organic volatiles /gal organic volatiles = (Do)s

4.) 100.00 Weight percent of VOCs in total volatiles = (Wo)v

5.) 100.00 Volume percent of VOCs in total volatiles = (Vo)v

F. VOC Content in Product Expressed in Other Terms:

1.) a.) 1.45 lb VOC / gal Product

1.) b.) 173.66 grams VOC / liter Product

2.) a.) 1.45 lb VOC / gal Product less water & exempt solvent

2.) b.) 173.66 grams VOC / liter Product less water & exempt solvent

3.) 1.82 lb VOC / gal total nonvolatiles

G. Volatiles: (all VOCs, HAPs, water & ammonia)

Ingredient	CAS Number	Weight Percent	Density (lb/gal)
Hazardous Air Pollutant VOCs (HAPS)		0.00	
Other VOCs (Non-HAPs)		16.95	0.00
Water	7732-18-5	0.00	8.34
Ammonia	7664-41-7	0.00	5.99