

MATERIAL SAFETY DATA SHEET



I PRODUCT IDENTIFICATION

MANUFACTURER'S NAME AND ADDRESS: PROSOCO, Inc.
3741 Greenway Circle
Lawrence, KS 66046

EMERGENCY TELEPHONE NUMBERS:
8:00 AM – 5:00 PM CST Monday-Friday: 785/865-4200
NON-BUSINESS HOURS (INFOTRAC): 800/535-5053

PRODUCT TRADE NAME: Stand Off[®] Liquid Marble Cleaner

II HAZARDOUS INGREDIENTS

| CHEMICAL NAME | (COMMON NAME) | CAS NO. | NFPA CODE | ACGIH TLV/TWA | OSHA PEL/TWA |
|---------------------|-----------------------------------|----------|-----------|---------------|--------------|
| Isopropyl Alcohol | IPA | 67-63-0 | 1,3,0,- | 400 ppm | 400 ppm |
| Phosphate Compounds | Inorganic Phosphates | Mixture | 2,0,0 | NE | NE |
| 2-Butoxyethanol | (Ethylene Glycol Monobutyl Ether) | 111-76-2 | 2,2,0 | 20 ppm | 50 ppm |

Percentage content of hazardous ingredients withheld as trade secret pursuant to OSHA regulations.
* PEL and TLV values for the phosphate compounds are for total nuisance particulates

III PHYSICAL DATA

| | BOILING POINT (°F) | VAPOR PRESSURE (mm Hg) | VAPOR DENSITY (Air = 1) | EVAPORATION RATE (Butyl Acetate = 1) |
|---------------------|--------------------|------------------------|-------------------------|--------------------------------------|
| Isopropyl Alcohol | 180°F | 33 (68°F) | 2.1 | 1.7 |
| Phosphate Compounds | N/A | N/A | N/A | N/A |
| 2-Butoxyethanol | 340°F | 0.8 (68°F) | 4.1 | 0.1 |

| | SPECIFIC GRAVITY | pH | SOLUBILITY IN WATER | APPEARANCE AND ODOR |
|----------------------------------------------|------------------|----------|---------------------|------------------------------------------|
| Stand Off [®] Liquid Marble Cleaner | 1.12 | 9.0-10.0 | Complete | Blue, semi-gel liquid, sweet, soapy odor |

IV FIRE AND EXPLOSION HAZARD DATA

EMERGENCY OVERVIEW

Stand Off[®] Liquid Marble Cleaner is a blue semi-gel liquid with a sweet, soapy odor. Contact with the eyes or skin may result in irritation. Always wear appropriate personal protective equipment when using this product. Product and vapors are combustible.

FLASH POINT (METHOD): 130°F (ASTM D 3278)

FLAMMABLE LIMITS: Not determined.

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire. If necessary, use alcohol foam, water fog or dry chemical, or carbon dioxide to extinguish flames.

SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH/MSHA approved self-contained breathing apparatus where this material is involved in a fire. Containers exposed to intense heat from fires should be cooled with large quantities of water to prevent weakening of container structure which could result in container rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS: During a fire, smoke may contain original product material as well as unidentified toxic and/or irritating compounds.

V HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Skin, eyes, inhalation, ingestion.

CARCINOGEN INFORMATION: Not listed (OSHA, IARC, NTP).

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Pre-existing skin, eye and respiratory disorders.

EFFECTS OF OVEREXPOSURE: High concentrations may cause skin, eye, and respiratory irritation. Can cause central nervous system depression. Overexposure to 2-butoxyethanol has been found to cause the following abnormalities in laboratory animals: anemia, liver abnormalities, kidney damage, lung damage, and blood abnormalities. Current literature indicates human resistance to these effects.

EYE CONTACT: Causes irritation with redness and potential swelling of the conjunctiva.

SKIN CONTACT: A single exposure for several hours may cause slight reddening. Longer or repeated contact may cause moderate irritation, and possibly a mild burn.

INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, drowsiness, possible unconsciousness and even asphyxiation.

INGESTION: May cause irritation of the digestive tract. May cause GI irritation with nausea, vomiting, and diarrhea. Swallowing substantial amounts may cause central nervous system depression and red blood cell hemolysis.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: If in eyes, flush with large amounts of water, holding eyelids apart to ensure flushing of the entire eye surface. If persistent irritation occurs, get medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and do not reuse until laundered. If persistent irritation occurs, get medical attention.

INHALATION: Remove to fresh air. Give artificial respiration if not breathing. Keep person warm, quiet, and get immediate medical attention.

INGESTION: If conscious, immediately give two glasses of water and call a physician, hospital emergency room, or poison control center for instructions on how to safely induce vomiting. If vomiting occurs, keep victims head lower than waist to avoid aspiration. Get immediate medical attention.

VI REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Heat, sparks and flame. Do not store in aluminum equipment at temperatures above 120°F.

INCOMPATIBILITY (MATERIALS TO AVOID): Acids, strong oxidizing agents, aldehydes, halogens and halogen compounds.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide,

VII SPILL OR LEAK PROCEDURES

SPILL, LEAK, WASTE DISPOSAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate potential sources of ignition. Wear appropriate respirator and other protective clothing. Contain and prevent migration to drains and soil. Soak up residue with a noncombustible absorbent such as clay or vermiculite; place in drums for proper disposal.

WASTE DISPOSAL METHODS: Product as supplied is classified as a hazardous waste under USEPA regulations for the characteristic of ignitability. Dispose of in a facility approved under RCRA regulations for hazardous waste. Containers must be leak-proof and properly labeled. Rinse water generated during use may be appropriate for discharge to a sanitary sewer with permission of the receiving facility. Consult federal, state, and/or local authorities for approved procedure. For additional information regarding handling and disposal of rinse-water, please review Technical Bulletin 200-CW "Controlled Handling of Cleaning Wastewater".

VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If Threshold Limit Value (TLV) of 2-butoxyethanol is exceeded, use a chemical cartridge respirator with organic vapor cartridges.. NIOSH approves the use of a full-face chemical cartridge respirator with organic vapor cartridges for isopropyl alcohol. If mists are present, use a NIOSH approved dust/mist respirator. Engineering or administrative controls should be implemented to reduce exposure. Prevent overexposure in accordance with 29CFR 1910.134.

VENTILATION: Provide sufficient general and/or local exhaust ventilation to maintain exposure below TLV(s). Use explosion-proof ventilation as required to control vapor concentrations below the TLV. Vapors are heavier than air, exhaust at floor level.

PROTECTIVE CLOTHING: Wear protective clothing as required to prevent prolonged skin contact.

PROTECTIVE GLOVES: Wear solvent-resistant gloves, such as nitrile rubber.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised. Do not wear contact lenses because they may contribute to the severity of an eye injury.

OTHER PROTECTIVE EQUIPMENT: Solvent-resistant boots and headgear as necessary. Provide access to an eyewash in proximity to the work area. Provide clean water for body washing.

IX SPECIAL PRECAUTIONS

WORK PRACTICES: Proper work practices and planning should be utilized to avoid contact with workers, building occupants, passersby, and non-masonry surfaces. Do not atomize during application. Do not apply to heated surfaces. Beware of wind drift. See the Product Data sheet and label for specific precautions to be taken during use. Smoking, eating and drinking should be prohibited during the use of this product. Wash hands before breaks and at the end of a shift.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store away from oxidizing materials, in a cool, dry place with adequate ventilation. Keep away from heat and open flames. Keep containers tightly closed when not dispensing product.

Wash up with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given in the Data sheet must be observed.

Use only non-sparking tools. Do not cut, grind, weld, or drill on or near this container. Do not store in aluminum containers.

X REGULATORY INFORMATION

SHIPPING: When shipped in original, factory packaging, this product carries the proper shipping description "Non-Hazardous/Non-Regulated (under 119 gallons per container)". The product is reclassified when shipped by air, vessel or in international commerce. Consult with PROSOCO's Regulatory Department for additional information.

NATIONAL MOTOR FREIGHT CLASSIFICATION: NMFC#48580 Sub 3 Class Rate: 55

SARA 313 REPORTABLE:

| CHEMICAL NAME | CAS | UPPERBOUND CONCENTRATION % BY WEIGHT |
|---------------------------------|----------|--------------------------------------|
| 2-Butoxyethanol (Glycol ethers) | 111-76-2 | 5% |

CALIFORNIA PROPOSITION 65: This product contains no chemicals listed under California's Proposition 65.

XI OTHER

MSDS Status: **Date of Revision:** June 6, 2001
For Product Manufactured After: N/A – no change in formulation.
Changes: Updated every section as a result of a scheduled technical review.
Item #: 55043
Approved By: Regulatory Department

DISCLAIMER:

The information contained on the Material Safety Data Sheet has been compiled from data considered accurate. This data is believed to be reliable, but it must be pointed out that values for certain properties are known to vary from source to source. PROSOCO, Inc. expressly disclaims any warranty express or implied as well as any liability for any injury or loss arising from the use of this information or the materials described. This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his unique application. This data relates only to the specific material designated and is not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize himself with all applicable regulations.

DATE OF PREPARATION: June 6, 2001