

MATERIAL SAFETY DATA SHEET

RYKO COLD PRO

RYKO MANUFACTURING CO.
11600 NW 54TH AVE.
GRIMES, IA 50111
 515-986-3700
EMERGENCY PHONE NO.: CHEMTREC 1-800-424-9300 (U.S. and Canada)

SECTION I - PRODUCT INFORMATION

PRODUCT NAME: RYKO Cold Pro	NFPA Ratings (Scale 0-4)
PRODUCT PART NUMBER(S): 18368-001, 18368-003	Health: 2
CHEMICAL NAMES AND SYNONYMS: N/A	Flammability: 1
PRODUCT TYPE: Alkaline detergent	Reactivity: 0
FORMULA: Proprietary Information	Other: Health (HMIS): 2

SECTION II - HAZARDOUS INGREDIENTS

Section 313 Supplier Notification: This product contains the indicated (#) toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372.

Ingredients	CAS Number	Percent*	Hazardous/Adopted Values
2-Butoxyethanol, # a.k.a. butyl cellosolve; ethylene glycol n-butyl ether	111-76-2	*	OSHA PEL: TWA 50 ppm; ACGIH TLV: 25 ppm SARA Title III-Wt%: <2 (313)
Sodium Metasilicate	6834-92-0	*	OSHA PEL: 15 mg/m ³ ACGIH TLV: 10 mg/m ³

*The exact composition of this product, with respect to the percentages of its reported hazardous ingredients and the presence of its non-hazardous ingredients (not reported), is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.

SECTION III - PHYSICAL DATA

BOILING POINT: 212°F	SPECIFIC GRAVITY: 1.05
VAPOR PRESSURE: UNK	VOLATILE BY WEIGHT: UNK
VAPOR DENSITY (AIR = 1): UNK	EVAPORATION RATE (ETHER = 1): >1
DENSITY: 8.76 Pounds/Gallon	SOLUBILITY IN WATER: Complete
APPEARANCE & ODOR: Clear red-pink liquid. Mild odor.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >212°F

FLAMMABILITY CLASSIFICATION: Not combustible.

FLAMMABLE LIMITS (% volume in air): LEL: UNK UEL: UNK

EXTINGUISHING MEDIA: Use extinguishing media that is suitable for surrounding fire. Use standard fire fighting techniques in extinguishing fires involving this material.

SPECIAL FIRE FIGHTING PROCEDURES: Product does not support combustion. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear and use a NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water. Use fog nozzles if water is used.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep container tightly closed. Isolate from oxidizers, heat and open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty containers can be very hazardous. Continue all label precautions.

MSDS # 15419-051
 PRODUCT # 18368-001
 18368-003
 REV. A ECO 593-62
 APRV: JT DATE: 06/04/93

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

25 ppm. Use only with adequate ventilation. Avoid breathing of vapor or mist.

EFFECTS OF OVEREXPOSURE

Eye Contact: Causes irritation, burning, redness, tearing, blurred vision.

Skin Contact: May cause irritation, burning, defatting, dermatitis. Absorption through skin increases exposure and may be harmful.

Inhalation: Product can cause irritation and damage to nasal and respiratory passages.

Ingestion: Can cause irritation, nausea, diarrhea, vomiting and burns to stomach, mouth, throat. Large quantities can cause delayed kidney injury.

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Remove contact lenses, if applicable. Immediately flush with plenty of water for a least 15 minutes while occasionally holding eyelids open to ensure flushing of the entire eye surface. Get medical attention, if necessary.

Skin Contact: Flush affected area with water for at least 15 minutes and wash with soap; remove contaminated clothing and shoes and do not reuse until thoroughly cleaned. Skin cream applied after washing may relieve dryness. Should symptoms develop or persist, contact physician.

Inhalation: Remove victim to fresh air; provide oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Keep victim warm and quiet. If prolonged exposure has occurred, obtain medical attention. Note: coughing, sneezing or other symptoms of upper respiratory irritation may serve as a warning of exposure to high airborne concentrations.

Ingestion: DO NOT INDUCE VOMITING!! * Keep victim warm and quiet. Rinse mouth with water; give large quantities of orange or tomato juice, carbonated soft drink, milk or water to drink. If vomiting occurs spontaneously; keep head below hips to prevent aspiration. Give more liquids. Do not give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

* Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician.

Effects of Chronic Exposure: Eye and skin contact can cause eye and skin irritation. Avoid skin contact. Wash thoroughly after handling.

Cancer Hazard: None known at this time

Primary Route(s) of Entry: Material is absorbed through skin and may be harmful. Inhalation.

Conditions Aggravated: Persons with severe skin, liver, heart or kidney problems should avoid use.

ACUTE TOXICITY DATA

Re: 2-Butoxyethanol (CAS# 111-76-2)

Acute Oral: LD(50) = 320 mg/kg (rabbits)

Acute Dermal: LD(50) = 440 mg/kg (rabbits)

Acute Inhalation: LC(50) = 700 ppm (mice)

SECTION VI - REACTIVITY DATA

STABILITY: STABLE UNSTABLE

INCOMPATIBILITY: Isolate from strong oxidizers such as permanganates, chromates and peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, sodium oxide vapors and hydroxide from burning.

HAZARDOUS POLYMERIZATION: WILL OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID: Isolate from oxidizers, heat, open flame.

SECTION VII - SPILL AND LEAK PROCEDURES

SPILL OR LEAK PROCEDURES: Stop spill at source. Dike area and contain. Pump spilled liquid and put contaminated soil in DOT approved containers for disposal. Label immediately. Clean up remainder with absorbent materials.

WASTE DISPOSAL METHODS: Dispose of waste by legal methods complying with local, state and federal regulations. If question exist, contact the appropriate agencies.

OTHER PRECAUTIONS: Do not store above 120°F. Store large amounts in structures in accordance with governmental regulations. Do not flame out, braze, weld or grind. Dispose of empty container according to appropriate regulations.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Ventilate to keep air concentration below 25 ppm. Avoid vapors. If work place exposure limit of product is over TLV, in accordance with 29CFR 1910.134, use NIOSH approved positive pressure self contained breathing apparatus. Consult safety equipment supplier, use explosion proof equipment. Avoid breathing vapor or mist.

VENTILATION REQUIRED: Provide ventilation to maintain exposure below TLV.

EYES: Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Do not wear contact lenses when using this product.

SKIN: Wear gloves (protective cuff or gauntlet type preferred) and other clothing (apron and footwear) as required to minimize repeated or prolonged contact. Wash clothing before reuse. Discard shoes if contaminated.

OTHER PROTECTIVE MEASURES: Safety shower, eye bath and washing facilities should be available and easily accessible.

SECTION IX - DOT SHIPPING INFORMATION

Proper Shipping Name: Compound cleaning liquid (NA 1993)

Hazard Class: N/A

ID Number: N/A

Label Requirements: None

Reportable Quantity: N/D

SECTION X - ADDITIONAL INFORMATION

In accord with the philosophy established by the Occupational Safety and Health Administrations Hazard Communication Final Rule, 1985, this Material Safety Data Sheet has been designed to emphasize the hazardous portions (ingredients) utilized in the total formulation. As a result, the information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product.

It is readily understood that accidents do happen. More importantly, it must be stressed that ACCIDENTS CAN BE PREVENTED! The information supplied in this document is presented for exactly this purpose. As required by law, its data should be thoroughly read and made available to anyone who may be responsible for handling this material.

All data provided relates to the concentrated product as shipped. Actual usage rates and further dilutions will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. We promote, however, any and all chemical products should be handled with extreme care and only by authorized and informed personnel.

SECTION XI - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Do not get into eyes, on skin/clothing. Do not breathe concentrated vapors. Always wash with soap and water before eating, drinking, smoking or using toilet facilities after using product. Launder contaminated clothing before reuse.

Store in tightly sealed containers when not in use. Keep liquid and vapor away from heat, sparks and open flames. Do not flame cut, braze, grind or weld containers. Do not allow to freeze for product quality assurance. Do not combine with other chemicals. Store in well ventilated areas at temperatures below 120°F. Use only with adequate ventilation.

As a general rule, prevent and protect this product from unauthorized use. For commercial use only! Keep out of reach of children.

Attention: This container is hazardous when empty or partially empty. Since containers retain product vapor or liquid residues, all hazard precautions must be observed. Residual vapors may explode on ignition. Do not cut, drill, grind, or weld on or near this container. Recycle or dispose of observing local, state and federal health, safety, and pollution laws. If spilled, mop up and dispose of properly. Legal responsibility is assumed only for the fact that all studies reported here and opinions are those of qualified experts. Buyer assumes all risk and liability. He accepts and uses this material on these conditions.

< = LESS THAN
> = MORE THAN
UNK = UNKNOWN

N/A = NOT APPLICABLE
N/D = NOT DETERMINED
N/E = NOT ESTABLISHED

The information and recommendations provided in this Material Safety Data Sheet have been obtained fro data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. RYKO Manufacturing Company knows of no medical condition, other than those noted on the Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.