



MSD Consumer Care, Inc.  
3030 Jackson Avenue  
Memphis, TN 38151

## MATERIAL SAFETY DATA SHEET

MSD Consumer Care, Inc. urges each user or recipient of this MSDS to read the entire data sheet to become aware of the hazards associated with this material.

### SECTION 1. IDENTIFICATION OF SUBSTANCE AND CONTACT INFORMATION

**MSDS NAME:** COPPERTONE Sensitive Skin Lotion SPF 50

**SYNONYM(S):** COPPERTONE Sensitive Skin Lotion SPF 50  
COPPERTONE Sensitive Skin Faces Lotion SPF 50  
COPPERTONE Tattoo Guard Lotion SPF 50  
COPPERTONE Kids Pure and Simple SPF 50

**MSDS NUMBER:** SP002148

**EMERGENCY NUMBER(S):** (908) 423-6000 (24/7/365) English Only  
Emergencies - CHEMTREC:  
(800) 424-9300 (Inside Continental USA)  
(703) 527-3887 (Outside Continental USA)

**MERCK MSDS HELPLINE:** (800) 770-8878 (US and Canada)  
(908) 473-3371 (Worldwide)  
Monday to Friday, 9am to 5pm (US Eastern Time)

The brand-names or trademarks indicated by CAPITAL LETTERS in this [M]SDS are the property of, licensed to, promoted or distributed by Merck & Co., Inc., its subsidiaries or related companies.

### SECTION 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Lotion  
White  
Characteristic odor

Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions.

#### POTENTIAL HEALTH EFFECTS:

Although some ingredients used in the manufacture of this product are considered hazardous on an individual basis, the final formulation of this product is considered non-hazardous when used according to manufacturer's directions.

Eye contact may cause slight irritation with temporary stinging, redness, tearing, and increased blinking. This product is not expected to be a skin irritant upon acute exposure.

#### LISTED CARCINOGENS

No carcinogens or potential carcinogens listed by OSHA, IARC, NTP or ACGIH are present in concentrations >0.1% in this mixture.

### SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**PRODUCT USE:** Consumer product

**CHEMICAL FORMULA:** Mixture.

The formulation for this product is proprietary information. Only hazardous ingredients in concentrations of 1% or greater and/or carcinogenic ingredients in concentrations of 0.1% or greater are listed in the Chemical Composition table. Active ingredients in any concentration are listed.

## CHEMICAL COMPOSITION

INGREDIENT	CAS NUMBER	PERCENT
Zinc Oxide	1314-13-2	0-15
Octinoxate	5466-77-3	0-7.5
Octisalate	118-60-5	0-5
Propylene Glycol	57-55-6	<10
Decamethylcyclopentasiloxane	541-02-6	<10

### ADDITIONAL INFORMATION:

This MSDS is written to provide health and safety information for individuals who will be handling the final product formulation during research, manufacturing, and distribution. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate MSDS for each ingredient. Refer to the package insert or product label for handling guidance for the consumer.

## SECTION 4. FIRST AID MEASURES

**INHALATION:** Remove to fresh air.

**SKIN CONTACT:** In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.

**EYE CONTACT:** As with any material contacting the eye, it is recommended to rinse eyes with water.

**INGESTION:** Rinse mouth with water. If symptoms develop, consult a physician.

## SECTION 5. FIRE FIGHTING MEASURES

### FLAMMABILITY DATA:

Flash Point: >93 deg C ( 199.4 deg F )

### SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and self-contained breathing apparatus (SCBA).

### SUITABLE EXTINGUISHING MEDIA:

Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray.

See Section 9 for Physical and Chemical Properties.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Wear appropriate personal protective equipment as specified in Section 8. Keep personnel away from the clean-up area.

### SPILL RESPONSE / CLEANUP:

All spills should be handled according to site requirements and based on precautions cited in the MSDS. In the case of liquids, use proper absorbent materials. For laboratories and small-scale operations, incidental spills within a hood or enclosure should be cleaned by using a HEPA filtered vacuum or wet cleaning methods as appropriate. For large dry or liquid spills or those spills outside enclosure or hood, appropriate emergency response personnel should be notified. In manufacturing and large-scale operations, HEPA vacuuming prior to wet mopping or cleaning is required.

See Sections 9 and 10 for additional physical, chemical, and hazard information.

## SECTION 7. HANDLING AND STORAGE

### HANDLING:

Keep containers adequately sealed during material transfer, transport, or when not in use. Wash face, hands, and any exposed skin after handling. Do not eat, drink, or smoke when using this substance or mixture.

Appropriate handling of this material is dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. See Section 8 (Exposure Controls) for additional guidance.

**STORAGE:**

Store in a cool, dry, well ventilated area.

See Section 8 for exposure controls and additional safe handling information.

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****EXPOSURE CONTROLS**

The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

**RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE):****Respiratory Protection:**

None required for consumer use of this product.

Respiratory protective equipment (RPE) may be required for certain laboratory and large-scale manufacturing tasks if potential airborne breathing zone concentrations of substances exceed the relevant exposure limit(s). Workplace risk assessment should be completed before specifying and implementing RPE usage. Potential exposure points and pathways, task duration and frequency, potential employee contact with the substance, and the ability of the substance to be rendered airborne during specific tasks should be evaluated. Initial and ongoing strategies of quantitative exposure measurement should be obtained as required by the workplace risk assessment. All RPE must conform to local and regional specifications for efficacy and performance. Consult your site or corporate health and safety professional for additional guidance.

**Skin Protection:**

None required for consumer use of this product.

Gloves that provide an appropriate barrier to the skin are recommended if there is potential for contact with this material. Consult your site safety staff for guidance.

**Eye Protection:**

None required for consumer use of this product.

Safety glasses with side shields. Use of goggles or full face protection may be required based on hazard, potential for contact, or level of exposure. Consult your site safety staff for guidance.

**Body Protection:**

None required for consumer use of this product.

In small-scale or laboratory operations, lab coats or equivalent protection is required. Disposable Tyvek or other dust impermeable suit should be considered based on procedure or level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.

In large-scale or manufacturing operations, disposable Tyvek or other dust impermeable suit is recommended and based on level of exposure. Use of additional PPE such as shoe coverings, gauntlets, hood, or head covering may be necessary. Consult your site safety staff for guidance.

**EXPOSURE LIMIT VALUES**

INGREDIENT	CAS NUMBER	ACGIH TLV (TWA)	OSHA PEL (TWA)
Zinc Oxide	1314-13-2	2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>

INGREDIENT	CAS NUMBER	ACGIH TLV (STEL / SKIN)	ACGIH TLV (CEIL)	OSHA PEL (STEL / SKIN)	OSHA PEL (CEIL)
Zinc Oxide	1314-13-2	10 mg/m <sup>3</sup>			

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**FORM:** Lotion  
**COLOR:** White  
**ODOR:** Characteristic odor

**MSDS NAME:** COPPERTONE Sensitive Skin  
Lotion SPF 50  
Latest Revision Date: 06-Jul-2012

**MSDS NUMBER:** SP002148

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT / RANGE:** >93 deg C  
**SPECIFIC GRAVITY:** 1.136  
**SOLUBILITY:**  
Water: Not determined  
Ethanol: Soluble

See Section 5 for flammability/explosivity information.

## SECTION 10. STABILITY AND REACTIVITY

**STABILITY/ REACTIVITY:**  
Stable under normal conditions.

**INCOMPATIBLE MATERIALS / CONDITIONS TO AVOID:**  
None known.

**HAZARDOUS DECOMPOSITION PRODUCTS / REACTIONS:**  
No dangerous decomposition is expected if used according to manufacturer's specifications.

## SECTION 11. TOXICOLOGICAL INFORMATION

Although some ingredients used in the manufacture of this product are considered hazardous on an individual basis, the final formulation of this product is considered non-hazardous when used according to manufacturer's directions.

### ACUTE TOXICITY DATA

**SKIN:**  
Not irritating to humans in a human repeat insult patch test (HRIPT) study.

**EYE:**  
There is a low potential for eye irritation based on an in vitro EpiOcular study.

**DERMAL AND RESPIRATORY SENSITIZATION:**  
Not sensitizing in a human repeat insult patch test (HRIPT).

**ADDITIONAL INFORMATION:**  
Negative in phototoxicity and photosensitivity studies.

### REPEAT DOSE TOXICITY DATA

**REPRODUCTIVE / DEVELOPMENTAL TOXICITY:**  
High doses of zinc oxide given to pregnant animals has been shown to cause effects on reproduction; however, this may have been due to a copper deficiency in those animals. In another studies no effects on reproduction were observed.

**MUTAGENICITY / GENOTOXICITY:**  
Zinc oxide was positive in a mouse lymphoma assay and negative in a bacterial mutagenicity assay (Ames).

**CARCINOGENICITY:**  
This material or product has not been evaluated for carcinogenicity.

## SECTION 12. ECOLOGICAL INFORMATION

There are no data for the final product or its formulation(s). The information presented below pertains to the following ingredient(s).

### ECOTOXICITY DATA

#### INGREDIENT ECOTOXICITY

Zinc Oxide:  
48-hr EC50 (daphnia): 24.6 mg/L  
96-hr LC50 (fathead minnow): 2246 mg/L  
48-hr LC50 (striped bass): 0.67 - 1.8 mg/L

### ENVIRONMENTAL DATA

There are no environmental data available for this product or its components.

### SECTION 13. DISPOSAL CONSIDERATIONS

**MATERIAL WASTE:**

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations. Incineration is the preferred method of disposal, when appropriate. Operations that involve the crushing or shredding of waste materials or returned goods must be handled to meet the recommended exposure limit(s).

**PACKAGING AND CONTAINERS:**

Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations.

### SECTION 14. TRANSPORT INFORMATION

This material is not subject to the transportation regulations of DOT, IATA, IMO, and the ADR.

### SECTION 15. REGULATORY INFORMATION

#### TSCA LISTING

INGREDIENT	TSCA
Zinc Oxide	X
Octinoxate	X
Octisalate	X
Propylene Glycol	X
Decamethylcyclopentasiloxane	X

#### U.S. STATE REGULATIONS

INGREDIENT	California Proposition 65	CARTK	NJRTK	CTR TK	MARTK
Zinc Oxide		X	2037		X
Propylene Glycol			3595		

INGREDIENT	PARTK	MNRTK	MIRTK	RIRTK
Zinc Oxide	X	X	X	X
Propylene Glycol	X	X		X

Fields in the above tables that do not contain data indicate that those materials have not been listed by local regulations.

### SECTION 16. OTHER INFORMATION

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

The brand-names or trademarks indicated by CAPITAL LETTERS in this [M]SDS are the property of, licensed to, promoted or distributed by Merck & Co., Inc., its subsidiaries or related companies.

**DEPARTMENT ISSUING MSDS:**

Global Safety & the Environment  
Merck & Co., Inc.  
One Merck Drive  
Whitehouse Station, NJ 08889

**MERCK MSDS HELPLINE:**

(800) 770-8878 (US and Canada)  
(908) 473-3371 (Worldwide)  
Monday to Friday, 9am to 5pm (US Eastern Time)

**MSDS CREATION DATE:**

03-Aug-2009

**SUPERSEDES DATE:**

12-Jun-2012

**SIGNIFICANT CHANGES (US SUBFORMAT):**

Synonyms

**MSDS NAME:** COPPERTONE Sensitive Skin  
Lotion SPF 50  
Latest Revision Date: 06-Jul-2012

**MSDS NUMBER:** SP002148