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Schering-Plough HealthCare Products, Inc.
3030 Jackson Avenue
Memphis, TN 38151

MATERIAL SAFETY DATA SHEET

Schering-Plough 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: Solarcaine Aloe Vera Aerosol

SYNONYM(S): Solarcaine Aloe Extra Burn Relief Aerosol

MSDS NUMBER: SP000119

EMERGENCY NUMBER(S): Schering-Plough Security Control Center (908) 820-6921 (24 hours)
Safety/Environmental Affairs (901) 320-2384
Transportation Emergencies -
CHEMTREC: (800) 424-9300 (Inside Continental USA)
(703) 527-3887 (Outside Continental USA)

INFORMATION: Safety/Environmental Affairs (901) 320-2384

SCHERING-PLOUGH MSDS HELPLINE: (800) 770-8878 (US and Canada)
(908) 629-3657 (Worldwide)
Monday to Friday, 9am to 5pm (US Eastern Time)

SECTION 2. 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

CHEMICAL NAME	CAS NUMBER	PERCENT
Lidocaine	137-58-6	0.4
Isobutane	75-28-5	10-20
Propane	74-98-6	<10
Propylene Glycol	57-55-6	
Glycerin	56-81-5	

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 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Colorless
Aerosol
Characteristic odor

I-556014 C-41100008647 ORM-D

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Highly Flammable.

May be harmful by inhalation.

May cause effects to:

- central nervous system
- respiratory system
- cardiovascular system

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:

This product is a topical local anesthetic delivered as an aerosol. This product may cause slight eye irritation or stinging or may cause slight skin irritation.

The information presented below is for the propellant components of this product.

Isobutane and propane are simple asphyxiant gases (displaces oxygen from the breathing atmosphere), anesthetics, and central nervous system depressants. Inhalation exposure to high concentrations may cause fatigue, vomiting, nausea, dizziness, decreased vision, mood disturbances, numbness of extremities (e.g. fingers), headache, confusion, decreased coordination and judgement, breathing difficulties, irregular heartbeat, cyanosis, convulsions, or coma. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Direct contact with liquefied isobutane or propane may cause frostbite or burns to the eyes or following prolonged skin contact.

LISTED CARCINOGENS

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

SECTION 4. FIRST AID MEASURES

INHALATION:	Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a physician.
SKIN CONTACT:	In case of skin contact, while wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a physician.
EYE CONTACT:	In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a physician.
INGESTION:	Rinse mouth and drink a glass of water. Do not induce vomiting. If symptoms persist, consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABILITY DATA:

FLASH POINT:	-84.4 deg C (-120 deg F)
FLAMMABILITY:	Highly flammable
UEL:	9.44%
LEL:	1.80%
AUTOIGNITION TEMPERATURE:	543.3 deg C (1010 deg F)

SPECIAL FIRE FIGHTING PROCEDURES:

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

SUITABLE EXTINGUISHING MEDIA:

Water, carbon dioxide (CO2), foam, or dry chemical

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:**

Contents under pressure. Eliminate possible ignition sources and follow appropriate grounding and bonding procedures. Ensure adequate ventilation. Keep containers tightly closed when not in use.

STORAGE:

Keep away from heat, sparks, open flames, and direct sunlight. Store in a cool, dry, well ventilated area.

See Section 8 for specific engineering 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, substitution of approved materials or appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. However, PPE should not be used as a method of permanent or long-term exposure control. 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.

In laboratories and small scale operations, respirators are not normally required; however, appropriate respiratory protection may be required in situations where exposure (e.g. spills, process upsets, or non-routine maintenance) may exceed any available recommended exposure limit. Consult your site safety staff for guidance.

In manufacturing and large-scale operations, powered air purifying respirators (PAPRs) or positive-pressure air supplied respirators with full-face coverage may be required dependent on the level of exposure. Appropriate respiratory protection is required in situations where exposure (e.g. spills, process upsets, or non-routine maintenance) may exceed any available recommended exposure limit. Consult your site safety staff for 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 if there is potential for contact with this material. 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.

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EXPOSURE LIMIT VALUES

CHEMICAL NAME	CAS NUMBER	ACGIH TLV (TWA)	OSHA PEL (TWA)
Propane	74-98-6	2500 ppm	1800 mg/m ³ 1000 ppm
Glycerin	56-81-5	10 mg/m ³	5 mg/m ³ Respirable fraction.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Aerosol
COLOR: Clear, Colorless
ODOR: Characteristic odor
BOILING POINT / RANGE: -11.7 deg C (Isobutane)
FREEZING POINT: -159.7 deg C (Isobutane)
VAPOR PRESSURE: 45.09 psia
VAPOR DENSITY: >1.26 (air = 1.29)
SPECIFIC GRAVITY: <1
SOLUBILITY:
 Water: Not determined

See Section 5 for flammability/explosivity information.

SECTION 10. STABILITY AND REACTIVITY

STABILITY/ REACTIVITY:

Stable under normal conditions.

INCOMPATIBLE MATERIALS / CONDITIONS TO AVOID:

Keep away from heat, sparks, open flame, and direct sunlight. Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS / REACTIONS:

Carbon monoxide. Carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

The information presented below pertains to the formulated product unless indicated otherwise.

ACUTE TOXICITY DATA

PRODUCT / CHEMICAL NAME	EXPOSURE ROUTE	STUDY DESCRIPTION	RESULT
Solarcaine Aloe Vera Aerosol	Eye	Eye Irritation	Slightly irritating

INHALATION:

Isobutane has exhibited CNS depression, rapid and shallow respiration, and apnea in mice exposed to high concentrations. In dogs, 45% isobutane caused anesthetic effects.

Propane caused irregular breathing, tremors, stupor, and CNS depression in guinea pigs exposed to 2.2 to 5.5% (24,000 to 56,000 ppm). Effects were rapidly reversible upon cessation of exposure. In cats, 89% propane caused a decrease in blood pressure, and in dogs, 1% to 3.3% caused hemodynamic changes, decreases in mean aortic pressure, stroke volume, and cardiac output, increase in pulmonary vascular resistance, and decreases in the contractility of the heart muscle. Weak cardiac sensitization was observed in mice and dogs exposed to 10 to 15% propane. Respiratory depression was observed in non-human primates exposed to 20% propane.

REPEAT DOSE TOXICITY DATA

SUBCHRONIC / CHRONIC TOXICITY:

Solarcaine aloe vera aerosol caused slight skin irritation after repeated (3 days) skin application.

MUTAGENICITY / GENOTOXICITY:

Isobutane was negative in a bacterial mutagenicity study (Ames).

Propane was negative in a bacterial mutagenicity study.

CARCINOGENICITY:

This material has not been evaluated for carcinogenicity.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA

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

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 not the preferred method of disposal. Operations that involve the crushing or shredding of waste materials or returned goods must be contained to meet the recommended exposure limit.

PACKAGING AND CONTAINERS:

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

SECTION 14. TRANSPORT INFORMATION

Refer to site-specific procedures and requirements for additional guidance.

DOT CLASSIFICATION:

Proper Shipping Name: Aerosols
Hazard Class: 2.1
UN Number: UN 1950
Packing Group: None

IATA CLASSIFICATION:

Proper Shipping Name: Aerosols flammable
Hazard Class: 2.1
UN Number: UN 1950
Packing Group: None

ADR CLASSIFICATION:

Proper Shipping Name: Aerosols
Hazard Class: 2.1
UN Number: UN 1950
Packing Group: None

IMDG CLASSIFICATION:

Proper Shipping Name: Aerosols
Hazard Class: 2
UN Number: UN 1950
Packing Group: None

SECTION 15. REGULATORY INFORMATION

TSCA LISTING

CHEMICAL NAME	TSCA
Lidocaine	Listed
Propane	Listed
Propylene Glycol	Listed
Glycerin	Listed

U.S. STATE REGULATIONS

CHEMICAL NAME	California Proposition 65	CARTK	NJRTK	CTRTK	MARTK
Propane			Substance no. 1564 Listed.		Listed
Glycerin					Listed

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CHEMICAL NAME	PARTK	MNRTK	MJRTK	ILRTK	LARTK	RIRTK
Propane	Listed	Listed		Listed		Listed
Propylene Glycol	Listed	Listed				Listed
Glycerin	Listed	Listed		Listed		Listed

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).

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