



MATERIAL (SAFETY DATA SHEET)

PRODUCT DERMA SHIELD AEROSOL

I. Product Identification

Product code: 25060H, 25061H, 25065H, 25066H, 25070H, 25071H, 25060H-CN, 25065H-CN, 25070H-CN

Synonym: Skin Protectant

Manufacturer/Supplier
Delta Kits Inc.
1090 Bailey Hill Rd. Suite A
Eugene Or. 97402
Tel: 800-548-8332
Fax: (541)345-1591

Chemtel
Emergency Telephone number
(800)-255-3925 US
(813)-248-0585 Int.

II. Hazard Identification

Classification: This product is classified as Extremely flammable, F+: R12

Signal word

DANGER



Environment: The product does not contain substances which are harmful to aquatic organisms or which may cause long term effects to the aquatic environment.

Physical and Chemical Hazards: The propellant contained in the product is extremely flammable and when in sufficient concentration can form explosive vapor/air mixtures. When heated the aerosol containers can burst due to excess internal pressure.

Human Health: No risk to human health is expected through normal use. The propellant is composed of simple asphyxiants. See section 11 for additional information.

III. Composition

Chemical Name	Concentration%	EC Number	C.A.S. number	Classification
Butane	7.02-8.03	203-448-7	106-97-8	F+;R12
Isobutane	1.1-1.8	200-857-2	75-28-5	F+;R12
Propane	1.1-1.8	200-827-9	74-98-6	F+;R12

Composition Comments: The composition of the product is a non-hazardous aqueous based mixture containing an extremely flammable propellant. Very small amounts of substances are present which may cause an allergic reaction in sensitive individuals.

IV. First Aid Measures

General: The product is intended for personal application and is not expected to require first aid under normal use, the following information is given as general advice. Always assess the dangers of the situation before assisting casualties. If breathing is difficult the casualty may be assisting by administering oxygen. Place unconscious person on side in the recovery position. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. The propellant is a simple asphyxiant so if casualty has stopped breathing perform artificial respiration. If medical assistance is required take this sheet and any other information about the incident with the casualty.

Eye Irritation: If product enters the eyes wash with plenty of water or eye wash solution. Remove contact lenses if possible and continue to rinse. If any discomfort continues obtain medical attention.

Skin Contact: First aid is not anticipated due to the nature and intended use of the product. If irritation or other discomfort occurs during normal application discontinue use.

Inhalation: Remove from source of exposure, provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly with plenty of water. If large amounts have been ingested or discomfort continues obtain medical attention.

V. Fire-Fighting Measures

Extinguishing Media: Use extinguishing media suitable for surrounding materials involved in a fire. Foam, carbon dioxide, water spray, dry powder. Do not use water jet.

Unusual fire and explosion hazards: The aerosol containers can pressurize in the case of fire and explode. The propellant may form explosive vapor/air mixtures and promote the spread of fire.

Specific hazards: In case of fire toxic or irritation fumes or vapors may be produced. Carbon monoxide (CO), Carbon dioxide (CO²), Oxides of nitrogen, Hydrocarbons.

Protective measures in case of fire.: Self contained breathing apparatus and full protective clothing must be worn in case of fire. Inform the emergency services about the presence of aerosols.

VI. Accidental Release Measure

Personal Precautions: This applies to spillages of the product itself. Wear protective clothing as described in section 8 of this safety data sheet. Avoid eye contact and inhalation of vapors during the clean up operation.

Environmental Precautions: Prevent spillage from entering drains and sewage systems.

Spill clean up methods: **When spillages of the product occur eliminate sources of ignition. In case of spillage in an enclosed space or insufficient ventilation suitable respiratory protection should be used due to the hazardous properties of the propellant.** Small spillages can be absorbed with an inert material such as sand or chemical bender (check compatibility). Large spillages should be contained by damming with sand, earth, inert material or chemical booms, absorb the spillage with the above. Transfer absorbed spillage into sealable containers, allow to vent off before sealing. Label correctly and dispose of according to local regulations through a reputable waste disposal company. Do not allow unauthorized disposal. Wash spillage site well with water and detergent. **Be aware that surfaces can become slippery.** Ventilate and allow to dry before allowing access. Wash thoroughly after dealing with a spillage. When spillages of the aerosol containers occurs, return any undamaged ones to storage and dispose of damaged ones according to local regulations.

VII. Storage and Handling Procedures.

Storage conditions: Store in original container away from heat, direct sunlight, moisture and sources of ignition. Store away from incompatible materials. Finished product should be stored safely in its packaging in a suitable storage environment. Store between 10 and 30°C. Avoid freezing conditions.

Handling precautions: Avoid eye contact and inhalation of vapors if produced. Use in well ventilated areas. Avoid ingestion of the product. When dispensing do not eat, drink or smoke. Avoid sources of ignition. Do not pierce or burn containers even when empty.

VIII. Exposure Controls and Personal Protection

Chemical name	std	TWA - 8hrs	STEL - 15 Min
Butane	WEL	600 ppm 1450mg.m ⁻³	750 ppm 1810mg.m ⁻³
Isobutane	WEL	600 ppm 1450mg.m ⁻³	750 ppm 1810mg.m ⁻³
Propane	WEL	Asphyxiant	Asphyxiant

Engineering measures: Not generally required for normal use of the product. Provide adequate ventilation, if used in confined spaces ensure adequate extraction facilities are in place. These must be explosion proof.

Respiratory equipment: Wear suitable respirator if vapors are produced and there is insufficient extraction or ventilation. Consult with the manufacturer about the compatibility of the equipment. If a large concentration of vapors occur in a confined space with an oxygen deficient atmosphere an air supplied respirator must be used.

Hand protection: Not required during normal use.

Eye protection: Wear approved eye protection if there is a risk of eye contact. Safety goggles are recommended.

Other protection: It is advisable to have eyewash facilities available in the workplace.

Hygiene measures: Wash at the end of each work shift and before eating, smoking and using the toilet. When dispensing do not eat, drink or smoke.

IX. Physical and Chemical Properties.

Appearance:	White Mousse	Water Solubility Values	Emulsion in water	Page 2 of 2
Odor :	Mild, pleasant, organic	pH	Approx.7	
Density	Approx. 0.9 g/ml	Viscosity	Low	

X. Stability and reactivity

Stability: Stable under normal temperature and storage conditions. Stable under recommended use.
Conditions to avoid: Avoid extreme temperatures, above 50°C and freezing conditions. Sources of ignition.
Materials to avoid: Oxidizing agents.
Hazardous decomposition products: During fire, Carbon monoxides, Carbon dioxide, Hydrocarbons, Oxides of nitrogen. Reaction with oxidizing agents will promote the spread of fire.

XI. Toxicological Information

General: During recommended use the product is unlikely to be a hazard to human health. The main risks come from the misuse of the product such as inhaling propellant vapors, ingesting large amounts or eye contact.
Inhalation: In high concentrations, vapors may irritate throat and respiratory system. Inhalation may lead to dizziness, nausea, unconsciousness. In extreme cases high concentrations of vapors can be fatal.
Ingestion: May cause discomfort and nausea if swallowed.
Skin contact: No effects are anticipated during normal use.
Eye contact: May cause eye irritation.

XII. Ecological Information

Ecotoxicity: The product is not regarded as hazardous to the environment, however ecological effects should not be disregarded. Do not allow unauthorized disposal of finished product or empty aerosol containers.
Mobility: The product would spread in the aquatic environment.

XIII. Disposal considerations

Disposal methods: Dispose of waste and residues according to local authority requirements. Do not allow unauthorized disposal to the environment. Do not puncture containers even when empty. Aerosol will float on water surfaces and travel in the flow of water.

XIV. Transportation information

DOT UN1950 Aerosols may be transported as ORM-D. Packed in a fiberboard box up to 30 kg/G. PI Y963
IATA UN1950 Aerosols may be transported as Consumer Commodity ID 8000. 30 kg/G PI Y PI Y963

Labeled with



XV. Regulatory Information.

Labeling Extremely Flammable
Risk Phrases R12 Extremely flammable
Safety phrases S2 Keep out of reach of Children
S16 Keep away from sources of ignition - No Smoking
S23 Do not breathe vapor or spray.
S51 Use only in well ventilated areas.
Statutory Instruments Chemicals (Hazard information and Packaging) Regulations 2009.
Control of Substances Hazardous to Health (COSHH).
The Aerosol Dispensers Regulations 2009 (SI 2009, No. 2824)
EC Legislation CLP Regulation (EC) 1272/2008
Regulation (EC) No. 1907/2006 (REACH)
Aerosols Dispensers Directive 75/324/EEC as amended by Commission Directive 2008/47/EC.
Guidance Approved Classification and Labelling Guide (CHIP 4)
Guidance to Regulation EC No. 1272/2008
BAMA Guidance on transport of aerosols
EH40, Workplace Exposure Limits

XVI. Other information

General The purpose of this data sheet is to provide information on the hazards associated with the product. It is not intended to be instructions for use or the replacement for a complete risk assessment. A full assessment of operational procedures and conditions must always be carried out by competent person.
Risk phrases in full These are applicable to the components of the propellant.
R12 Extremely flammable.

Issue Date: 2015-06-22

Revision Date: 2016/07/01

To the best of our knowledge, the information contained herein is accurate. However, Delta Kits Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.