HEALTH & SAFETY DATA SHEET

IDENTIFICATION OF SUBSTANCE OR PREPARATION AND COMPANY

Name of Product **DERMASHIELD**

Type of product	Skin protectorant
Chemical family	Speciality Chemicals
CAS number	Proprietary
Use	Mousse for skin protection
Company identification	Oak Industrial Supplies Hamilton Road Sutton in Ashfield Notts NG17 5LN
Tel	01623 442222
Fax	01623 441234

COMPOSITION OF THE PREPARATION

Ingredients	**% weight**	**CAS nr**	**EINECS nr**
Dermashield	90.9 %	Proprietary	
Lanolin	0.1 %	8006-54-0	
Propane	2.34 %	74-98-6	200-827-9
Butane	6.66 %	106-97-8	203-448-7

INFORMATION ON INGREDIENTS

Ingredients	Dermashield	Lanolin	Propane	Butane
Classification	None	NC	F+	F+
Risk Phrases	None	NE	R12	R12
Exposure Limit: HSE EH40	NE	NE	Asphyxiant	600ppm, 1430mg/m3 8h TWA
Exposure Limit: ACGIH	NE	NE	Aaphyxiant	750ppm, 1780 mg 800 ppm, 1900mg/m3

*For Abbreviations: - see "Other Information"

HAZARDS IDENTIFICATION

Main Hazard	Flammable. Aerosol cans: heat may build pressure, rupturing closed containers.
Health Effects EYES	Effects of acute over-exposure of product. May cause minor eye irritation.
Health Effects SKIN	Effects of acute over-exposure of product. Not normally considered a skin hazard. The Lanolin contained in the product, can be an irritant to some people.
Health Effects INGESTION	None expected.
Health Effects INHALATION	None expected. Over-exposure may cause irritation to upper respiratory tract.
Environmental Effects	None expected.

FIRST AID MEASURES

First aid	
- Inhalation	Remove to fresh air. In case of respiratory arrest, administer artificial respiration. Seek medical advice.
- Skin contact	None expected. The Lanolin contained in the product, can be an irritant to some people.
- Eye contact	Wash out eye(s) with running water for several minutes whilst holding eyelid(s) open. Seek medical attention if ill effect or irritation develops.
- Ingestion	Do NOT induce vomiting. Wash out mouth with water.
Emergency Medical Treatment	None expected. No adverse health effects are expected at ambient temperatures and normal processing, where exposures are eliminated by good hygiene practice and well-ventilated conditions.

FIRE FIGHTING MEASURES

Extinguishing media	
- Suitable	Water spray. Dry powder. CO2. Use water spray or fog for cooling exposed containers.
Special exposure hazards	As supplied, product presents no explosion hazard. Store so water spray or fog for cooling/fire fighting can be applied to all containers from safe distance/protected location. Keep away from heat and sources of ignition. Heat from fire can generate flammable vapour. At extreme temperatures (over 54 ºC) containers may vent, rupture or burst.
Protection against fire	Self contained breathing apparatus during attack stages of fire fighting and fire clean up. Personnel without suitable respiratory protection equipment must leave area to prevent significant exposure to decomposition gases. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

ACCIDENTAL RELEASE MEASURES

Personal Protection	None under normal conditions.
Environmental Precautions	Contain, minimize dispersion, collect.
After spillage / leakage	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Clean up any spills as soon as possible, using an absorbent material to collect the spill. Do not flush down sewers. Sweep, shovel (or vacuum) spills into appropriate container for disposal.

HANDLING AND STORAGE

Storage	Store in dry, well-ventilated area. Store away from direct sunlight. Store away from heat, sparks, open flame, strong acids/ reducing agents (combustibles). Store in protected area to prevent accidental puncture.
Handling	Avoid puncturing container or boxes.
General Information	Store out of reach of children. Do not puncture, incinerate, or store above 50 ºC.
Decontamination Procedures	No special decontamination procedures needed.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Control Measures	None under normal conditions.
Occupation Exposure Limits	
- United Kingdom	Occupational Exposure Standard (OES). Not established.
8 Hour TWA (mg/m3)	1430 Propellant (propane/butane)
TLV (ppm)	600 Propellant (propane/butane)
Personal protection	
- Respiratory protection	None under normal conditions.
- Skin protection	None under normal conditions.
- Eye protection	None under normal conditions.
- Ingestion	None under normal conditions.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Mousse
Colour	White
Odour	Odourless
Initial boiling point (ºC)	100
Density (kg/m3)	SG 0.94
Vapour pressure (kPa)	896
Solubility in water (% weight)	Not determined. Soluble
pH value (concentrated product)	Neutral product.
Auto-ignition temperature (ºC)	Not established.
Explosion limits	Propellant (propane/butane)
- Lower (%)	1.8
- Upper (%)	9.5
Log P octanol / water at 20ºC	Not established.
Flammability	Flammable.
Autoflammability	Not established.

Explosive properties	As supplied, product presents no explosion hazard.

STABILITY AND REACTIVITY

Stability	Stable
Conditions to avoid	Overheating
Materials to avoid	Avoid strong acids and oxidizers.
Hazardous decomposition products	When overheated or in fire, decomposition products may contain oxides of nitrogen and small amounts of aliphatic and aromatic hydrocarbons. Combustion products, like those of other natural and synthetic materials, must be considered toxic.
Hazardous reactions	None

TOXICOLOGICAL INFORMATION

See other information	See Section 10.
Acute Toxicity	Not expected to be toxic.
Oral, rat LD50 (mg/kg)	Not established.
Percutaneous, rat LD50 (mg/kg)	Not established.
Dermal, rabbit LD50 (mg/kg)	Not established.
Inhalation, rat LC50 (mg/l)	Not established.
Dermal irritation (rabbit)	Not established.
Eyes irritation (rabbit)	Not established.
Chronic Toxicity	Not expected to be toxic.
Inhalation	Not established.
Dermal	Not established.
Ocular	Not established.
Ingestion	Not established.
Carcinogenicity	Not classified. Not listed by the International Agency for Research on Cancer (IARC).
Mutagenicity	Not established.
Reproductive toxicity	Not established.
Human data	Not established.
Primary irritation	The Lanolin contained in the product, can be an irritant to some people.
Sensitisation	Not established.
Teratogenicity	Not established.

ECOLOGICAL INFORMATION

Ecological effects information	None under normal conditions.
96 Hour-LC50 (mg/l)	Not established.
96 Hour-LC50-fish (mg/l)	Not established.
48 Hour-LC50-Daphnia magna (mg/l)	Not established.
48 Hour-LC50-Aquatic (mg/l)	Not established.
48 Hour-LC50-Algae (mg/l)	Not established.
Biodegradation (%)	Biodegradable.
Mobility	Slight.
Persistence and Degradability	Not established.
Bioaccumulation potential	Not established.

DISPOSAL CONSIDERATIONS

Product disposal	Landfill properly contained, contaminated solids only at permitted disposal sites using registered contractors. Similarly, by high temperature incineration. Both in accordance with National and International Law and Regulations.
Container disposal	Landfill solids at permitted sites. Dispose of used or damaged aerosol cans at permitted disposal sites.

TRANSPORT INFORMATION

UN No.	1950
	Aerosols
Packing Group	Not allocated
ADR/RID	Class 2 Item 10 º (b) 1
	Label : Not required.
IMO-IMDG code	Class 9 Page : 9022
	Label : Not required.
ICAO/IATA	Class 2
	Label : Required
CEFIC Tremcard	TEC(R) : 20G26-2
Hazchem	2 W E Assumed

REGULATORY INFORMATION

EEC Labelling:	
- Symbol(s)	Flammable
- Classification	Flammable
- R Phrase(s)	R10 : Flammable
- S Phrase(s)	S16 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- EEC No.	Not established
UK Legislation	Health & Safety at Work etc Act 1974. Control of Substances Hazardous to Health (COSHH) Regulations 1988. Chemical (Hazards Information and Packaging) (CHIP) Regulations 1993.
EEC Legislation	Directive 88/379/EEC (DPD) Dangerous Preparations Directive, Directive 91/155/EEC (Safety Data Sheets) and those referred within.
EINECS Number	NE
TSCA Listing	Not classified. All components on TSCA Inventory.

OTHER INFORMATION

Literature 1	The Public Analyst examined Dermashield for compliance with The Cosmetic Products (Safety) Regulations 1989 and testing for the use of the product as a barrier hand cream (particularly with reference for use in the food industry). The conclusion was that this Product complied with those Regulations and was safe to use as a barrier cream.
Literature 2	Environmental Hygiene Guidance Note EH40: Occupational Exposure Limits. Published annually by HSE.

HAMILTON ROAD SUTTON IN ASHFIELD NOTTINGHAMSHIRE NG17 5LN UK
TELEPHONE: 044(0)1623 442222 FAX: 044(0)1623 441234
Web site: **www.oakis.co.uk** e-mail: sales@oakis.co.uk

Notes – Abbreviations

F- = Flammable. F = Highly Flammable. F+ = Extremely Flammable. E = Explosive. O = Oxidising. N = Dangerous for Environment. NA = Not Applicable. NC = Not Classified. NE = Not Established. C = Corrosive. T+ = Very Toxic. T = Toxic. Xn = Harmful. Xi = Irritant. Carc.Cat.(or A) 1, 2, 3 = Carcinogenic Category 1, 2 or 3, Mut.Cat. 1, 2, 3 = Mutagenic Category 1, 2, or 3. Ter.Cat. 1, 2 = Teratogenic Category 1 or 2, MEL = Maximum Exposure Limit. OES = Occupational Exposure Standard. TWA = 8h Time Weighted Average. STEL = Short Term (10min.) Exposure Limit. Skin = Can be absorbed through skin. TD = Total Inhalable Dust. RD = Respirable Dust. Nusdust. = Nusiance Dust. Oil mist = measured as oil mist.

REVISED: 07 Nov 95 **Supercedes: 06 Nov 95**

The statements are made on the basis of the present state of knowledge. They are meant to describe the Products with a view to safety requirements and therefore are not to the effect of guaranteeing certain properties.

The contents and format of this MSDS are in accordance with EEC Commission Directive 91/155/EEC and in Great Britain; "The Chemicals (Hazard Information and Packaging) Regulations 1993.

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HAMILTON ROAD SUTTON IN ASHFIELD NOTTINGHAMSHIRE NG17 5LN UK
TELEPHONE: 044(0)1623 442222 FAX: 044(0)1623 441234
Web site: **www.oakis.co.uk** e-mail: sales@oakis.co.uk