

SAFETY DATA SHEET

DERMA SHIELD

Issue Date: 23/04/2010

According to Regulation (EC) 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME Derma Shield

APPLICATION Skin Protectant

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2 HAZARDS IDENTIFICATION

CLASSIFICATION

The product is classified as Extremely flammable, F+; R12

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 vapour/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.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Concentration %	CAS Number	EC Number	Classification
BUTANE	7.02-8.03	106-97-8	203-448-7	F+; R12
ISOBUTANE	1.1-1.8	75-28-5	200-857-2	F+; R12
PROPANE	1.1-1.8	74-98-6	200-827-9	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.

4 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 assisted by administering oxygen. Place unconscious person on side in the recovery position. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS

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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.

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.

EYE CONTACT

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.

INGESTION

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

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.

5 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 pressurise in the case of fire and explode. The propellant may form explosive vapour/air mixtures and promote the spread of fire.

SPECIFIC HAZARDS

In case of fire toxic or irritating fumes or vapours 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.

6 ACCIDENTAL RELEASE MEASURES

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 vapours 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 binder (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

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company. Do not allow unauthorised 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.

7 HANDLING AND STORAGE

HANDLING PRECAUTIONS

Avoid eye contact and inhalation of vapours 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.

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.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

NAME	Std	TWA – 8hrs		STEL-15 min			
BUTANE	WEL	600 ppm	1450 mg.m ⁻³	750 ppm	1810 mg.m ⁻³		
ISOBUTANE	WEL	600 ppm	1450 mg.m ⁻³	750 ppm	1810 mg.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 vapours are produced and there is insufficient extraction or ventilation. Consult with the manufacturer about the compatibility of the equipment. If a large concentration of vapours 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE White Mousse

ODOUR Mild, pleasant, organic

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SOLUBILITY Emulsion in water

DENSITY Approx. 0.9 g/ml

pH Approx. 7

VISCOSITY Low

10 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

Oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS

During fire, Carbon monoxide, Carbon dioxide, Hydrocarbons, Oxides of nitrogen. Reaction with oxidising agents will promote the spread of fire.

11 TOXICOLOGICAL INFORMATION

GENERAL

During recommended use the product is unlikely to be a hazard to human health. The main risks come from misuse of the product such as inhaling propellant vapours, ingesting large amounts or eye contact.

INHALATION

In high concentrations, vapours may irritate throat and respiratory system. Inhalation may lead to dizziness, nausea, unconsciousness. In extreme cases high concentrations of vapours 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.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not regarded as hazardous to the environment, however ecological effects should not be disregarded. Do not allow unauthorised disposal of finished product or empty aerosol containers.

MOBILITY

The product would spread in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

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14 TRANSPORT INFORMATION

GENERAL

This product is always transported as a limited quantity, < 1 litre.

Aerosols may be packed in fibreboard cartons up to 30kg gross mass or shrink/stretch wrap trays, up to a gross mass of 20kg.

PROPER SHIPPING NAME

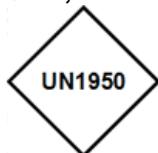
AEROSOLS

UN No.

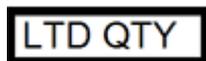
1950

LABEL (ROAD, RAIL AND SEA)

The package must have the word Aerosols on at least one face.



IMDG



Transport units must be marked Limited Quantities or Ltd Qty in letters no smaller than 65mm in height

MARINE POLLUTANT No.

15 REGULATORY INFORMATION

LABELLING



**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 vapour 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

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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

16 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 persons.

REVISION COMMENTS

Revision 4.

ISSUE DATE

23/04/2010

STATUS

Approved

RISK PHRASES IN FULL

These are applicable to the components of the propellant.

R12 Extremely flammable

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