

Material Safety Data Sheet

1.0 Identification of the product and the company

1.1 Identification of the product

1.1.1 Product Aerosol Steelclean S545

1.2 Identification of the company

Vitopan Limited
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2.0 Composition/information on ingredients

Ingredient	CAS No.	Health (class)	Risk (R No.)	Contents %
Propane	74-98-6	F+	R 12	5-15%
Butane/Isobutane	106-97-8	F+	R 12	5-15%
Kerosine	8008-20-6	Xn,Xi, N	R 10,51/53,65	25-45%
Petroleum distillate	64742-47-8	Xn	R 10,65,66	5-15%

3.0 Hazard identification

Pressurised Container

Extremely Flammable

Irritating to skin.

Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
Solvent abuse can kill instantly

4.0 First aid measures

General: Move the exposed person to fresh air at once

Eyes: Promptly wash eyes with plenty of water whilst lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention.

Skin: Promptly wash contaminated skin with soap or mild detergent and water. Remove clothing if soaked through and wash as above. If irritation persists seek medical attention.

Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep affected person warm and at rest. Get prompt medical attention.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Get medical attention immediately.

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5.0 Fire fighting measures

Extinguish Media:

Carbon dioxide (CO₂); foam, water spray, fog or mist.

Fire Fighting Procedures:

Water may be ineffective but use to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse vapours and protect person(s) stopping the leak. Water spray may be used to flush spills away and dilute spills to non-flammable mixtures. Use water spray to reduce vapours. Warn fire fighters that aerosols are involved.

Fire & Explosion Hazards:

Makes explosive mixtures with air. Extremely flammable. May explode in a fire. May travel considerable distance to source of ignition and flash back.

6.0 Accidental release measures

Procedures for leaks/spillage:

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste. Provide ventilation and confine spill.

7.0 Handling and storage

Usage Precautions:

Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Do not spray near a naked flame or any incandescent material.

Storage Precautions:

Flammable/combustible. Store at moderate temperatures in dry, well-ventilated area. Keep away from heat, sparks and open flame. Protect from sunlight and do not expose to temperatures exceeding 50°C.

8.0 Exposure control/personal protection

Ingredient	CAS No.	STD	LT EXP	ST EXP
			(8hrs)	(15min)
Propane	74-98-6		Asphyxiant	Asphyxiant
Butane/Isobutane	106-97-8	OES	600ppm	750ppm
Kerosine	8008-20-6	Man	600 mg/m ³	
Petroleum distillate	64742-47-8	Man	2000mg/m ³	

Man: Manufacturers recommended level based on EH40 guidance.

Ventilation: No specific requirements noted, except this product must not be used in a confined space without good ventilation. If, following workplace assessment, OEL is likely to be exceeded due to use where natural ventilation is insufficient, suitable respirator with organic vapour cartridge must be worn.

Skin Protection: Wear suitable impervious gloves if skin contact cannot be avoided. Nitrile recommended.

Eye Protection: Wear splash-proof eye goggles to prevent any possibility of eye contact.

General: Do not smoke when using this product.

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9.0 Physical and chemical properties

Appearance: Aerosol container containing a mixture of active ingredients, solvents and propellants.
Odour: Solvent
Physical Data
Components: A Flash Point method is not available for aerosols but the major hazardous component, the propellant has a flash point of <40°C with flammability limits of 9.5% vol. Upper and 1.8% vol Lower. Auto ignition temperature is 410/580°C.

10.0 Stability and reactivity

Stability: Highly volatile.
Conditions to
Avoid: Avoid heat, flames and other sources of ignition.

11.0 Toxicological information

Health Warnings: Vapour concentrations above the recommended exposure level are irritating to the eyes and respiratory tract. May cause headaches and dizziness, are anaesthetic and may have central nervous system effects. Concentrating and inhaling the gas/spray can lead to abnormal heart rhythms and possibly death. Irritant to eyes and mucus membranes. Irritating to skin.

Route of Entry: Inhalation, skin.

Target Organs: Central nervous system. Respiratory system, lungs, skin.

Medical Symptoms: Narcotic effect. Drowsiness. Dizziness.

Acute and Chronic Health Hazards: Repeated exposure may cause upper respiratory irritation. Frequent or prolonged contact may irritate and cause dermatitis, defatting, drying and cracking of skin.

12.0 Ecological information

Environmental Hazards: This product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Do not empty or discharge into drains. Ensure container is empty before disposal to prevent contents entering the watercourse. The product contains Volatile Organic Compounds which when released to air, in larger quantities, has the potential for photochemical ozone creation.

13.0 Disposal consideration

Disposal Methods: Ensure container is empty and dispose of in accordance with Local Authority regulations. Do not pierce or incinerate even when container is empty.

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14.0 Transport information

This product is packed in accordance with the Limited Quantities Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30Kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

ROAD : UN No. 1950
ADR Class: 2, Div. 2.1
ADR Label 1950
Aerosols, 2, 5°F, ADR
Label for Conveyance:
Flammable Gas (class 2)
(not required for limited quantities)

SEA: UN SEA: 1950
Sea Transport Class No. 2
IMPDG Page No: 2102
Sea Pack GR: II

15.0 Regulatory information

Label for Supply:	Extremely Flammable (orange/black with flame symbol)	Harmful to the Environment (Dead tree/fish)
Risk Phrases:	R-12 Extremely Flammable R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.	
Safety Phrases:	S-2 Keep out of reach of children S-51 Use only in well ventilated areas S-16 Keep away from sources of ignition -No Smoking S-23 Do not breath spray or vapour S-29 Do not empty into drains.	

UK Regulatory References:

Health and Safety at Work Act 1974

The Control of Substances Hazardous to Health Regulations 1988

H.S.E. EH40/2000 Occupational Exposure Limits 2002

The Chemicals (Hazardous Information & Packaging for Supply)

Regulations 2002

EC Directives:

Aerosol Directive 75/324/EEC as amended by 94/1/EEC Dangerous Preparations Directive 1994/45/EEC

Labelling Directive 91/155/EEC as amended by 93/112/EEC Safety Data Sheet Directive 91/155/EEC.

Statutory Instruments:

The Consumer Protection Act 1987 SI 1140 The Aerosol Dispensers Regulations 1977 and 1997

The Classification, Packaging and Labelling of Dangerous Substances Regulations 1984 (SI 1244)

The Health & Safety at Work Act etc. Ct 1974

Approved Code of Practice: The Control of Substances Hazardous to Health. British Aerosol Manufacturers Code of Practice, 7th Ed 1999

Other Information Sources: Material Safety Data Sheet, Misc, manufacturers

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NOTE:

**This paragraph summarises only the most important legal provisions
For the product to be described in the safety data sheet.
Please note that there may be additional legal provisions to be observed
We recommend that you keep yourself informed about all applicable
International, national and local regulations.**

16.0 Additional information.

The information contained in this Material Safety Data Sheet has been developed by the company on the express request of its customers. The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information available. The company does not assume any liability with respect to the Correctness and/or completeness of the information provided by this Material Safety Data Sheet. It is the sole responsibility of the user to ascertain whether there are any other regulations pertaining to the storage, use and handling of the product in addition to those mentioned.