

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	PENTRON
Manufacturer's Product Code	5068
Other Names	Hydrocarbon based rust loosening aerosol.
Major Recommended Uses	As a rust loosening spray for rusty nuts and bolts and other metal pieces.
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	October 2007

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	NOT classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class	Class 2.1.
Poisons Schedule	None allocated.
Risk Phrases	Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Safety Phrases	Keep out of reach of children Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients			
Chemical Entity	CAS No	Proportion	Synonyms
Propane/butane hydrocarbon propellant			
'Ingredients determined not to be hazardous'		to 100%	
[Product contains ethyl acetate – at concentration significantly below the NOHSC concentration cut-off.]			

SECTION 4 – FIRST AID MEASURES

Skin	Wash affected areas with plenty of soap and water for several minutes. Seek medical attention if irritation develops.
Eye	Rinse eyes with water for 15-minutes. Seek medical attention if irritation develops.
Inhalation	Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	Give 3-4 glasses of water, but do NOT induce vomiting. If vomiting occurs, give fluids again. Seek medical attention if discomfort occurs.
First Aid Facilities	General eyewash and washroom facilities.
Advice to Doctor	There is no specific antidote. Treat the patient symptomatically.
Additional Information	Gastric lavage is indicated. Do not induce vomiting. Chronic poisoning has produced secondary anaemia, leucocytosis and a cloudy swelling and fatty degradation of the viscera. Primary routes of entry are via inhalation and absorption.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	In the event of a fire, powder, foam, CO ₂ and water spray are the recommended extinguishing agents.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear.
Fire/Explosive Hazards	Vapours are heavier than air and may travel to distant and/or low-lying sources of ignition and flashback. Product may produce a floating fire hazard as liquid floats on water.
Hazchem Code	2Y

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing.

Methods and Materials for Containment and Clean Up	Due to the nature of aerosol packaging, a large spill is unlikely. For a small spill, ventilate the area and absorb with an inert material. Dispose of waste in a closed, labelled container in accordance with local, state and Commonwealth laws. Typical disposal is to wrap the empty aerosol container in several layers of newspaper and dispose of in the garbage. Do not puncture or incinerate the can.
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SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Observe precautions stated on product label, and follow industry safety regulations. Eating and smoking should be prohibited where the preparation is used. Use with caution around heat, sparks, pilot lights, static electricity and open flame.
Conditions for Safe Storage	Store indoors in the in original container. Store in a dry, well-ventilated area. Store below 49°C.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	Not established for this mixture. The NOHSC recommends keeping 'refined oil mist' exposure below a TWA limit of 5mg/m ³ . The exposure limits for individual components follow: Ethyl acetate: TWA - 200ppm; 720mg/m ³ ; STEL - 400ppm; 1440mg/m ³ Propane/butane propellant: TLV TWA – 800ppm; 1900mg/m ³
Engineering Controls	General exhaust is usually adequate, although local ventilation is recommended to control exposure from operations that can generate excessive mists or vapours. Minimise use in confined spaces
Personal Protective Equipment	
Eye/Face Protection:	Wear safety glasses or solvent resistant mask if the method of use presents the likelihood of eye contact. AS1336 and AS/NZS1337 should be consulted for information on eye protection.
Skin Protection	Neoprene or nitrile rubber gloves should be worn if repeated or prolonged skin contact is likely.
Respiratory Protection	None required under normal conditions of use. If misting is likely to occur, or if used in poorly ventilated areas where exposure will be above the TLV, an approved organic vapour respirator meeting the requirements outlined in AS/NZS 1715 and AS/NZS 1716 should be used.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to amber liquid with a vinegar odour.
pH	Not applicable
Vapour Pressure	Not available
Boiling Point	72°C
Melting Point	Not applicable
Solubility in Water (g/L)	Insoluble
Specific Gravity	0.87 (At 25 °C ; water = 1)
Flashpoint	27°C
Flashpoint Method	TAG Closed Cup
Flammability Limits	LEL: 2.2; UEL: 11.0
% Volatiles by Volume	50.0%
Evaporation Rate	1.0 (BU A/C = 1)

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Avoid heat, hot surfaces, sparks, and open flames. Keep away from strong oxidising agents such as chlorine bleach, concentrated hydrogen peroxide, dichromates, permanganates, and potassium hypochlorite; acids, bases, silica gel, potassium tbutoxide, oleum, nitrates, lithium tetrahydroaluminate, lithium aluminium hydride, chromium trioxide, chlorosulfonic acid, 2-chloromethylfuran, amines, and alumina.
Hazardous Decomposition Products	Oxides of carbon – carbon monoxide under extreme heat; oxides of nitrogen, sodium, and sulphur; aldehydes.

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SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute - Swallowed	May cause irritation with possible nausea, cramps, vomiting and diarrhoea.
Acute - Eye	May cause irritation seen as tearing, redness, and a burning sensation. Blurred vision may result.
Acute - Skin	May cause irritation seen as itching and redness.
Acute - Inhaled	May cause respiratory irritation seen as coughing and sneezing. Inhalation of large amounts may cause dizziness, headache and other central nervous system effects.
Chronic	Due to the use pattern of this product, the likelihood of any chronic effects occurring is remote. Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis; pre-existing blood, cardiovascular, liver, and kidney diseases. Prolonged exposure may cause a narcotic effect, bronchitis, blood alterations and hepatic, renal and cardiac damage. Prolonged contact may cause conjunctivitis, dermatitis and liver and kidney congestion in high concentrations.
Target Organs	Central nervous system, heart, lungs, kidneys and liver.
Product Contains Chemicals Listed as Carcinogens by	International Agency for the Research of Cancer (IARC): NO ; Other: NO PROPANE - IHL-LC50 >40% by volume N-BUTANE - IHL-RAT LC50: 658 g/m3/4h Human volunteers exposed repeatedly to gases of similar hydrocarbon mixtures ranging from 250 to 1000ppm exhibited no cardiac or pulmonary function abnormalities. ETHYL ACETATE EYE-HMN SDT: 400 ppm IHL-HMN TCLo: 400 ppm ORL-RAT LD50: 5,620 mg/kg IHL-RAT LC50: 16,000 ppm/6h SKN-RBT LD50: >20 mL/kg SKN-RBT LS50: >18,000 mg/kg INH-RAT LC50: 200 gm/m3 [Sources: Vendor's MSDS and Registry of toxic effects of chemical substances, CCINFOWeb, 2007.]

SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. Avoid contaminating waterways.	
Persistence/Degradability	Not readily biodegradable; slowly biodegradable in aerobic conditions.
Mobility in Soil	Not soluble in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not incinerate or puncture aerosol cans. If aerosol can develops a leak, allow to fully discharge before disposal. Prevent disposal in sewers and waterways. Normally suitable for disposal at approved land waste site, but review Commonwealth, State and local government requirements prior to disposal.

SECTION 14 – TRANSPORT INFORMATION

UN Number	UN1950
UN Proper Shipping Name	Aerosol
Transport Hazard Class	ADG Class 2.1, no sub-risk.
Packaging Group	Not applicable.
Hazchem Code	2Y

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule: None allocated



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SECTION 16 – OTHER INFORMATION

1st update of 16-heading MSDS – updated Sections 8, 11 and added DG pictogram to Section 15.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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