



MATERIAL SAFETY DATA SHEET

BENDIX BRAKE CLEANER

Hazardous according to criteria of Worksafe Australia

FMP Group (Australia) Pty. Ltd.
Elizabeth Street
Ballarat
Phone 03 5327 0211

IDENTIFICATION

Shipping Name	Bendix Brake Cleaner
Product Use	A spray on brake cleaner
UN Number	1950
Dangerous Good Class	2.1
Poisons Schedule	None allocated
Packing Group	
Subsidiary Risk	Not applicable
HAZCHEM Code	

PHYSICAL DESCRIPTION / PROPERTIES

Appearance	Colourless liquid. Vapour has a strong solvent odour
Boiling Point	-42°C (propellant)
Melting Point	0°C (propellant)
Vapour Pressure	300 – 1400 kpa at 25°C (propellant)
Specific Gravity (kg/l)	Not relevant
Flash Point	-104°C to -60°C (propellant)
Flammability Limits	1.5% to 9.6% by volume (propellant)
Solubility in Water	Insoluble

OTHER PROPERTIES

Auto ignition temperature	>200°C
Odour threshold	Not determined
Vapour Density (air = 1)	>1
Volatilize	99.9%

ACTIVE INGREDIENTS

CHEMICAL	CAS#	UN#	Proportion (w/w%)	Worksafe Australia Exposure Std 8hr TWA
Petroleum hydrocarbon	64742 – 89 – 8		>60	
Aliphatic alcohol	67 – 63 – 0		10 – 30	
Benzene	71 – 43 – 2		<0.08	
Hydrocarbon Propellant	68476 – 85 – 7		10 – <30	
Hydrocarbon Propellant	68476 – 86 – 8		10 – <30	
Critical non-hazardous ingredients			Balance to 100%	

Note – Petroleum Hydrocarbon may contain <5% w/w n-Hexane as impurities

HEALTH HAZARD DATA – ACUTE

LD50 – LC50 Mixture	Not established
Route of Entry – Ingestion	Minimal toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema
Route of Entry – Skin	Prolonged exposure to vapour may cause irritation
Route of Entry – Eye	Prolonged exposure to vapour may cause irritation
Route of Entry – Inhalation	Vapours may irritate mucous membranes and may cause drowsiness and headache

HEALTH HAZARD DATA – CHRONIC

The nature of the components and the method of application make it unlikely that harmful exposures will occur

EMERGENCY / FIRST AID PROCEDURES

Inhalation	Remove from further exposure and restore breathing. Keep warm and quiet. Obtain medical assistance if recovery is not rapid
Eye	Hold eyes open and flush immediately with large quantities of running water for at least 15 minutes
Skin	Wash skin thoroughly with mild soap and water. Remove contaminated clothing
Ingestion	DO NOT INDUCE VOMITING. See a doctor or contact the Poisons Information Centre
Advice to Doctor	The probability of harmful effects in normal use is remote. Treat symptomatically

PRECAUTIONS FOR SAFE HANDLING AND USE

Exposure Standards	No National Exposure Standard has been allocated by the NH&MRC to this product, however the Time Weighted Average (TWA) exposure standard for the Hydrocarbon Propellant is 1000 ppm, 1800 mg/m ³ and is listed as an asphyxiate. The TWA is the concentration of atmospheric contaminant to which nearly all workers may be repeatedly exposed for a normal 8 hour work day and a 40 hour work week, year after year, without an adverse effect.
Engineering Controls	Avoid all sources of ignition. The vapours form explosive compositions in air. Good ventilation is essential for safe use.
Flammability	In use highly explosive vapours are produced. Keep away from all sources of ignition, flames, hot surfaces, electrical, static or frictional sparks.

CONTROL MEASURES

Personal Protection	Respiratory equipment must be worn where exposure limits are exceeded. Avoid eye or skin contact.
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STORAGE AND TRANSPORT

Keep containers in a well-ventilated area away from all sources of ignition. Store in accordance with the regulations for storage of flammable materials. Product must be stored and transported according to UN 1950, flammable Dangerous Goods 2.1 and EPG 2.1.001 guidelines.

SPILLS AND DISPOSAL

Remove all sources of ignition. Avoid breathing vapours. Ventilate the area. Empty cans may be disposed of in conventional landfill operations. Do not puncture or incinerate.

FIRE AND EXPLOSION HAZARD

If exposed to a fire, aerosol containers may explode liberating quantities of carbon dioxide, carbon monoxide and potentially hazardous fumes. Dense smoke can appear if combustion is incomplete. Containers should be cooled with water spray or the area evacuated.

LABEL DATA

RISK PHRASES	R65	Harmful – May cause lung damage if swallowed
	R36	Irritating to eyes
SAFETY PHRASES	S2	Keep out of reach of children
	S3	Keep in a cool place
	S9	Keep container in a well ventilated place
	S15	Keep away from heat
	S16	Keep away from sources of ignition
	S23	Do not breathe vapour
	S24	Avoid contact with skin
	S25	Avoid contact with eyes
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S46	If swallowed, seek medical advice immediately and show this container or label
S51	Use only in well ventilated areas	

CONTACT POINT

Occupational Health and Safety Manager	Phone 03 5327 0211
Product Development Manager	Phone 03 5327 0211

DISCLAIMER

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