



SAFETY DATA SHEET

1. IDENTIFICATION

Product Name:	Bendix Brake Cleaner
Recommended Use:	Automotive Brake and metal cleaner
Supplier:	FMP Group (Australia) Pty. Ltd
ABN:	14 004 332 496
Street Address:	Elizabeth Street Ballarat, Victoria 3350 Australia
Telephone:	1300 737 162
Facsimile:	+61 35336 1274
Emergency:	+61 35327 0211

2. HAZARDS IDENTIFICATION

Classified according to GHS and Safe Work Australia criteria

LABEL ELEMENTS

Signal Word: DANGER

Hazard Symbol (s):



Health Hazard



Harmful



Flammable



Environment

Hazard Statement (s):

H223 Flammable aerosol
H304 May be fatal if swallowed and enters airways
H315 Causes skin Irritation
H336 May cause drowsiness and dizziness
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

General	P101 P102 P103	If medical advice is needed, have product container or label at hand Keep out of reach of children Read Label before use
Prevention	P210 P211 P251 P261 P264 P280 P285	Keep away from all sources of ignition – No smoking Do not spray on an open flame or other ignition surface Pressurized container. Do not pierce or burn, even after use Avoid breathing dust/fumes/gas/mist/vapours/spray Wash hands, face and all exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection In case of inadequate ventilation wear respiratory protection
Response	P312 P301 + P310 P331 P302 + P352 P332 + P313 P304 + P340	Call a POISON CENTRE or a doctor / physician if you feel unwell If SWALLOWED: Immediately call a POISON CENTRE or doctor / physician Do NOT induce vomiting IF ON SKIN: Wash with soap and water If skin irritation occurs: Get medical advice / attention If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Storage	P405 P403 + P233 P410 + P412	Store locked up Store in a well-ventilated place. Keep container tightly closed Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122 °F
Disposal	P501	Dispose of contents to hazardous waste collection point

Poisons Schedule (Aust): S5

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Class: 3 Flammable Liquid



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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS number	Classification for ingredients exceeding cut off values	Proportion%
Solvent naphtha	64742-89-8	Flammable Liquid Cat 2 Skin Irritant Cat 2 Aspiration Hazard Cat 1 STOT SE Cat 3 Aquatic Chronic Cat 2	>60
Ethyl Alcohol	64-17-5	Flammable Liquid Cat 2	30-60%
Ingredients determined to be non-hazardous			to 100%
Total			100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre Australia 131 126 New Zealand 0800 764 766	
Inhalation	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.
Skin Contact	For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.
Eye Contact	If in eyes wash out immediately with plenty of water, also under eyelids, for at least 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Ingestion	Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Get to a doctor or hospital quickly.
Notes to Physician	Treat symptomatically. Delayed pulmonary oedema may result.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment	If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).
Specific Hazards Arising from the Chemical / Mixture	Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.
Special Protective Equipment and Precautions for Fire Fighters	If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
HAZCHEM Code	3YE



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6. ACCIDENTIAL RELEASE MEASURES

Small Spills	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
Large Spills	Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use a spark-free shovel.
Environmental Precautions	Prevent product from entering sewers or waterways If contamination of sewers or waterways has occurred advise local emergency services.
Methods and Materials for Containment and Cleaning up	Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Wash thoroughly after handling with soap and water
Conditions for Safe Storage	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks. This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations. This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE STANDARDS						
Chemical component	TWA		STEL		Classification Category	Notices
	PPM	mg/m ³	PPM	mg/m ³		
Ethyl Alcohol	1000	1880				
Oil mist, refined mineral		5				
mg/m ³ = milligrams per cubic meter PPM = Parts per Million						
As Published by Safe Work Australia (SWA). A list of current Australian Exposure Standards is available on the Hazardous Substances Information System (HSIS), which can be accessed from www.safeworkaustralia.gov.au						
TWA = Time Weighted Average	The average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.					
STEL = Short term Exposure Limit	The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.					
These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.						



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Biological Limit Values	No Biological limit allocated
Engineering Controls	Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.
INDIVIDUAL PROTECTION MEASURES	
Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye and Face Protection	Safety Glasses with side shields
Skin Protection	Overalls, safety shoes and/ or other removable protective clothing is recommended. Handle with gloves. Gloves must be inspected prior to use. Nitrile rubber gloves are suitable for intermittent contact. Dispose of contaminated gloves after use in accordance with applicable laws and good workplace practices. Wash and dry hands
Respiratory Protection	Where risk assessment shows respiratory protection is appropriate, an organic vapour / particulate respirator as conforming to the AS/NZ 1716 standard <i>Respiratory Protective Devices</i> is required. Respiratory equipment should be used in reference to AN/NZ 1715 standard <i>Selection, Use and Maintenance of Respiratory Protective Equipment</i> .
Thermal Hazards	Standard Personal Protective Equipment required for the safe handling of this product should not adversely increase the thermal load of the wearer.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid with petroleum odour
Odour	Petroleum
Odour Threshold	Not Available
pH	Not Applicable
Melting point / freezing point	Not Available
Initial Boiling Point and boiling range	Not Available
Flash Point	-12
Evaporation Rate	Not Available
Flammability (solid, gas)	Not Available
Upper / Lower flammability or explosive limits	Not Available
Vapour Pressure	Not Available
Relative Vapour Density	>1
Specific Gravity (at 20°C)	0.74
Solubility	Insoluble in water
Partition Coefficient: n-octanol / water	Not Available
Auto ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available



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10. STABILITY AND REACTIVITY

Chemical Reactivity	No reactivity hazards are known for the material.
Chemical Stability	The material is thermally stable when used and stored as directed
Hazardous Reactions	No known hazardous reactions
Conditions to Avoid	Elevated temperatures and sources of ignition
Incompatible Materials	Oxidising agents
Hazardous Decomposition Products	Oxides of Carbon and Nitrogen, smoke and other toxic fumes may be liberated at elevated temperatures

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects	May be an irritant to mucous membranes, skin and respiratory tract. Inhalation may result in headaches, dizziness and nausea. High concentrations can produce central nervous system depression. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.	
Acute Toxicity	This material has been classified as non-hazardous.	
Skin corrosion / Irritation	Mixture	Skin: this material has been classified as a Category 2 Hazard (irritant to skin).
Serious Eye Damage / Irritation	Mixture	Eye: this material has been classified as not corrosive or irritating to eyes.
Respiratory or skin sensitization	Mixture	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a respiratory sensitiser.
Germ cell mutagenicity	Mixture	This material has been classified as non-hazardous.
Carcinogenicity	Mixture	This material has been classified as non-hazardous.
Reproductive toxicity	Mixture	This material has been classified as non-hazardous.
Specific Target Organ Toxicity (STOT) –single exposure	Mixture	This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.
Specific Target Organ Toxicity (STOT) –repeated exposure	Mixture	This material has been classified as non-hazardous.
Aspiration Hazard	Mixture	This material has been classified as a Category 1 Hazard.

12. ECOLOGICAL INFORMATION

Avoid contaminating Waterways

Ecotoxicity	Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): 1-10 mg/L	
	Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard. Acute toxicity estimate (based on ingredients): 1-10 mg/L	
Persistence and biodegradability	Mixture	No information available
Bio accumulative Potential	Mixture	No information available
Mobility in Soil	Mixture	No information available
Other Adverse Effects	Mixture	No information available

13. DISPOSAL CONSIDERATIONS

Disposal Method	<ul style="list-style-type: none"> Product should be disposed in accordance with applicable State / Territory Land Waste Management Authority
Disposal limitations	<ul style="list-style-type: none"> Disposal methods should avoid pulverization of the product Product should not be discharged to sewer Product should not be discharged to storm water Product is not suitable for recycling Product is not suitable for incineration
Disposal Considerations	<ul style="list-style-type: none"> Persons conducting disposal activities please refer to the information in section 8 – Exposure Controls and Personal Protection of this SDS



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14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

UN Number	1993
Proper Shipping or Technical Name	Flammable Liquid, NOS (Solvent Naphtha, Ethyl Alcohol)
Dangerous Goods Class	3
Packing Group	II
Environmental; Hazards for Transport Purposes	Not Available
Special Precautions for the User	Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.
Additional Information	Not Available
HAZCHEM or Emergency Action Code	3YE

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN Number	1993
Proper Shipping or Technical Name	Flammable Liquid, NOS (Solvent Naphtha, Ethyl Alcohol)
Dangerous Goods Class	3
Packing Group	II

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN Number	1993
Proper Shipping or Technical Name	Flammable Liquid, NOS (Solvent Naphtha, Ethyl Alcohol)
Dangerous Goods Class	3
Packing Group	II

15. REGULATORY INFORMATION

The product is subject to the following international agreements

Montreal Protocol (Ozone Depleting Substances)	Not Applicable
The Stockholm Convention (Persistent Organic Pollutants)	Not Applicable
The Rotterdam Convention (Prior Informed Consent)	Not Applicable
Basel Convention (Hazardous Waste)	Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish
International Convention for the prevention of Pollution from Ships (MARPOL)	Annex II - Noxious Liquid Substances carried in Bulk Annex III - Harmful Substances carried in Packaged Form

The product is subject to the following Health Safety and Environmental Regulation



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Standard for the uniform scheduling of medicines and poisons (SUSMP)	Poisons Schedule: S5
Australian inventory of chemical substances (ACIS)	Not Applicable for product Constituents as listed
National industrial chemicals notification and assessment (NICNAS)	Not Applicable for product

16. OTHER INFORMATION

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

SDS Preparation Information

SDS Version	Reason for Revision	Notes
1.0	Release in GHS Format	SDSID: BBC101116

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since FMP Group (Australia) Pty Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Abbreviations and Acronyms Used in preparation of the SDS

GHS	Global Harmonized System of Classification and Labeling
ADG	Australian Dangerous Goods Code
SWA	Safe Work Australia
TWA	Time Weighted Average
PPM	Parts Per Million
mg/m ³	Milligrams per cubic meter
STEL	Short Term Exposure Limit
LD50	Lethal Dose 50%
LC50	Lethal Concentration 50%
IARC	International Agency for Research on Cancer
STOT	Specific Target Organ Toxicity