

SAFETY DATA SHEET

Product ID:	FA01		
Product Name:	Forch Brake Cleaner, 25L		
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Version:	2.0	Supersedes Date:	Oct 17, 2018
Manufacturer's Name:	Forch Australia Pty Ltd.		
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Product/Recommended Uses:	Automotive brake and metal cleaner		

SECTION 2) HAZARDS IDENTIFICATION

Classification

Pictograms



Signal Word

Danger

Hazardous Statements - Health

H373 - May cause damage to organs.
H304 - May be fatal if swallowed and enters airways
H361 - Suspected of damaging fertility or the unborn child.
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness

Hazardous Statements - Physical

H225 - Highly flammable liquid and vapor

Hazardous Statements - Environmental

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

P241 - Use explosion-proof electrical, ventilating, lighting and all other equipment.

P264 - Wash hands, face and exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P242 - Use only non-sparking tools.

P243 - Take action to prevent static discharges.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment- see First Aid on this label.

P378 - Use dry chemical, foam, carbon dioxide to extinguish.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 - Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P370 + P378 - In case of fire: Use dry chemical, foam, carbon dioxide to extinguish.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER/doctor/physician if you feel unwell.

Precautionary Statements - Storage

P406 - Store in a corrosive resistant container with a resistant inner liner.

P405 - Store locked up.

P403 + P235 - Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local, regional, national and international regulations.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000110-54-3	HEXANE	40% - 100%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

IF exposed or concerned: Get medical advice/attention. Remove source of exposure or move person to fresh air, keep comfortable for breathing and keep warm. Call a POISON CENTER/doctor if you feel unwell. Eliminate all ignition sources if safe to do so.

Eye Contact

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Wash contaminated clothing before re-use or discard. For gross contamination, immediately drench with water and remove clothing. 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.

Ingestion

Rinse mouth. Give a glass of water to drink. Do NOT induce vomiting. If vomiting occurs naturally, give further water. Call a POISON CENTER/doctor if you feel unwell. Never give anything by mouth to an unconscious or convulsing person. IF exposed or concerned: Get medical advice/attention.

Most Important Symptoms and Effects, Both acute and Delayed

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Small Fire: Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Large Fire: Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

Specific Hazards in Case of Fire

Containers may explode in fire. Cylinders exposed to fire may vent and release toxic gas through pressure relief devices. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Ruptured cylinders may rocket. Electrical requirements for work area should be assessed according to AS3000. Vapors may travel to source of ignition and flash back. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). May form flammable vapour mixtures with air. Highly flammable liquid and vapour. On burning or decomposing may emit toxic fumes.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

Special Protective Actions

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Stay uphill and/or upstream. Do not walk through released material.

Recommended Equipment

Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions

DO NOT breathe vapor or mist.

DO NOT get on skin, eyes or clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Suppress gases with water spray jet. Neutralization may be required before discharging sewage into treatment plants.

Methods and Materials for Containment and Cleaning up

Ventilate area after clean-up is complete. For small spills: wipe up with absorbent (clean rag or paper towels). For large spills: absorb with vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Use clean, non-sparking tools to collect absorbed material. Dispose of contaminated materials according to federal, state and local regulations.

SECTION 7) HANDLING AND STORAGE

General

Remove contaminated clothing and protective equipment before entering eating areas.

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

All containers must be properly labelled.

Eyewash stations and showers should be available in areas where this material is used and stored.

DO NOT breathe vapor or mist.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Report ventilation failures immediately.

Storage Room Requirements

Store gas cylinders separately, away from processing and handling areas, and from incompatible materials. Eliminate all sources of ignition. Protect containers against banging or other physical damage when storing, transferring, or using them. Keep containers securely sealed when not in use, check regularly for leaks. Empty containers retain residue and may be dangerous. Store in dry, well-ventilated, cool areas, out of direct sunlight and away from incompatible materials and other sources of heat.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

Skin Protection

Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to AS/NZS 1715 and AS/NZS 1716 should be followed. Check with respiratory protective equipment suppliers. If risk of inhalation exists wear organic vapor/particulate respirator.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH TWA (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	WES TWA (mg/m3)	WES STEL (ppm)	WES STEL (mg/m3)	WES TWA (ppm)	WES HEALTH
HEXANE	176			50		CNS impair; peripheral neuropathy ; eye irr	Skin, BEI	72			20	

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Skin designation	OSHA Carcinogen
HEXANE	500	1800				

(C) - Ceiling limit, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	5.66 lb/gal
Specific Gravity	0.68
% VOC	84.00%
Density VOC	4.75 lb/gal
% Solids By Weight	0.00%
Appearance	Colourless liquid
Odor Description	Petroleum-like
Odor Threshold	Data not available
pH	Data not available
Water Solubility	0.0115g/l (20°C)
VOC Part A & B Combined	Data not available
Flash Point Symbol	-
Flash Point	20 °C
Viscosity	Data not available
Lower Explosion Level	Data not available
Vapor Pressure	Data not available
Upper Explosion Level	Data not available
Vapor Density	Data not available
Freezing Point	Data not available
Melting Point	-20 °C
Low Boiling Point	55 °C
High Boiling Point	85 °C
Auto Ignition Temp	Data not available
Decomposition Pt	Data not available
Evaporation Rate	Data not available
Coefficient Water/Oil	Data not available

SECTION 10) STABILITY AND REACTIVITY

Stability

The product is stable under normal storage conditions.

Conditions to Avoid

Elevated temperatures and sources of ignition.

Hazardous Reactions/Polymerization

Will not occur.

Incompatible materials

Oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon and nitrogen, smoke and other toxic fumes.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation

Causes skin irritation

Carcinogenicity

No Data Available

Serious Eye Damage/Irritation

No Data Available

Respiratory/Skin Sensitization

Material may be an irritant to mucous membranes and respiratory tract.

Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

No Data Available

Germ Cell Mutagenicity

No Data Available

Reproductive Toxicity

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs.

Prolonged exposure to inhalation of high concentration can lead to unconsciousness.

Aspiration Hazard

May be fatal if swallowed and enters airways

Acute Toxicity

Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination and impaired judgment.

Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

No Data Available

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Toxic to aquatic life with long lasting effects

Persistence and Degradability

No data available.

Bio-accumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) TRANSPORT INFORMATION

ADG Information

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

UN No: 1208

Proper Shipping Name: HEXANES

Flammable Liquid Class 3

Packaging Group II

HAZCHEM: 3YE

IMDG Information

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

UN No: 1208

Proper Shipping Name: HEXANES

Flammable Liquid Class 3

Packaging Group II

This material is classified as a marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

IATA Information

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

UN No: 1208

Proper Shipping Name: HEXANES

Flammable Liquid Class 3

Packaging Group II

SECTION 15) REGULATORY INFORMATION

ERMA New Zealand Approval Code

ERMA Group Standard: Aerosol (Flammable) Group Standard 2006; HSR002515

CAS	Chemical Name	% By Weight	Regulation List
0000110-54-3	HEXANE	40% - 100%	DSL,VOC,TSCA

SECTION 16) OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ADG- Australian Dangerous Goods Code; CAS- Chemical Abstract Service; DSL- Domestic Substances List; LC- Lethal Concentration; LD- Lethal Dose; OSHA- Occupational Safety and Health Administration; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; VOC- Volatile Organic Compounds; WES- Workplace Exposure Standards

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