SAFETY DATA SHEET Brakefit Brake & Clutch Cleaner (Aerosol)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Brakefit Brake & Clutch Cleaner (Aerosol)

Product number BBC600

Internal identification B12911, 12460

Container size 600ml Aerosol

UFI: 5JR4-31V9-S00D-JWCD

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Car maintenance product. Cleaning agent.

Uses advised against This product is not recommended for any industrial, professional or consumer use other than the identified

uses stated above.

1.3. Details of the supplier of the safety data sheet

Supplier Brakefit

Unit G2 Titan Road Patchway Bristol BS346FD 0117 428 8090

1.4. Emergency telephone number

Emergency telephone Tel: +44 1604 701111 (Office Hours Monday - Friday (0900 Hrs - 1700 Hrs))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms







Signal word

Danger

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Brakefit Brake & Clutch Cleaner (Aerosol)

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P312 Call a POISON CENTRE/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/ container in accordance with national regulations.

P102 Keep out of reach of children.

Contains NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT, PROPAN-2-OL

Detergent labelling ≥ 30% aliphatic hydrocarbons

2.3. Other hazards

The product is highly flammable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT 30-60%

CAS number: 64742-49-0 REACH registration number: 01-

2119475514-35-XXXX

Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315

STOT SE 3 - H336 Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

BUTANE 10-30%

CAS number: 106-97-8 EC number: 203-448-7

Classification Flam. Gas 1 - H220 Press. Gas (Liq.) - H280

Brakefit Brake & Clutch Cleaner (Aerosol)

PROPAN-2-OL 10-30%

CAS number: 67-63-0 EC number: 200-661-7 REACH registration number: 01-

2119457558-25-XXXX

Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Keep affected person away from heat, sparks and flames. Move affected person to fresh air at once. Get

medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep

affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration. Get medical attention.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected

person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the

lungs.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if

any discomfort continues.

Eye contact Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of

exposure.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion Aspiration hazard if swallowed. The fluid can enter the lungs and cause damage (chemical pneumonitis,

possibly fatal). Ingestion may cause severe irritation of the mouth, the oesophagus and the

gastrointestinal tract. Nausea, vomiting.

Skin contact Skin irritation.

Eye contact May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Dry chemicals, sand, dolomite etc. Alcohol-resistant foam. Carbon

dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Brakefit Brake & Clutch Cleaner (Aerosol)

Specific hazards

Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting

Risk of re-ignition after fire has been extinguished. Risk of explosion. Move containers from fire area if it can be done without risk. Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material. Do not use water jet as an extinguisher, as this will spread the fire. Contain and collect extinguishing water. If risk of water pollution occurs, notify appropriate authorities. Avoid the spillage or runoff entering drains, sewers or watercourses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2. Environmental precautions

Environmental precautions

Avoid from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Contain spillage with sand, earth or other suitable non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Stop leak if possible without risk. Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be permitted. Use non sparking handtools and explosion-proof electric equipment. Absorb in vermiculite, dry sand or earth and place into containers. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Keep away from heat, sparks and open flame. Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Do not wear contact lenses. Static electricity and formation of sparks must be prevented. During application and drying, solvent vapours will be emitted. Use non sparking handtools and explosion-proof electric equipment. Eye wash facilities and emergency shower must be available when handling this product. Vapours may accumulate on the floor and in low-lying areas. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid eating, drinking and smoking when using the product. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Avoid contact with oxidising agents. Keep only in the original container.

Brakefit Brake & Clutch Cleaner (Aerosol)

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m³

BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³ Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

Carc

The carcinogenic classification only applies if Butane contains more than 0.1% of buta-1,3-diene.

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit.

Carc = Capable of causing cancer and/or heritable genetic damage.

Ingredient comments WEL = Workplace Exposure Limits

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT (CAS: 64742-49-0)

DNEL Industry - Dermal; Long term systemic effects: >300 mg/kg/day

Industry - Inhalation; Long term systemic effects: >2035 mg/kg/day Consumer - Dermal; Long term systemic effects: >699 mg/kg/day Consumer - Oral; Long term systemic effects: >699 mg/kg/day Consumer - Inhalation; Long term systemic effects: >608 mg/m³

PNEC No PNEC available.

BUTANE (CAS: 106-97-8)

DNEL No DNEL available.

PNEC No PNEC available.

PROPAN-2-OL (CAS: 67-63-0)

DNEL Industry - Inhalation; Long term systemic effects: 500 mg/m³

Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Oral; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m³ Industry - Dermal; Long term systemic effects: 888 mg/kg/day

PNEC - Fresh water; 140.9 mg/l

marine water; 140.9 mg/l
Intermittent release; 140.9 mg/l
Sediment (Freshwater); 552 mg/kg
Sediment (Marinewater); 552 mg/kg

STP; 2251 mg/lSoil; 28 mg/kg

ISOBUTANE (CAS: 75-28-5)

DNEL No DNEL available.

Brakefit Brake & Clutch Cleaner (Aerosol)

PNEC No PNEC available.

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Use explosion-proof general and local exhaust ventilation.

Eye/face protection

Contact lenses should not be worn when working with this chemical. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures. Use gloves with insulation for thermal protection (EN 407), when needed. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to:

Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Do not eat, drink or smoke when using this product.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use CE approved air-purifying respirator with combination filter type A1P2 minimum.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Aerosol Colour Colourless.

Odour Characteristic. Organic solvents. Hydrocarbons.

BOILING POINT RANGE 65°C TO 95°C @ 760 mm Hg Initial boiling point and range

Below minus 15°C Closed cup. Flash point

Brakefit Brake & Clutch Cleaner (Aerosol)

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.0 %

Vapour pressure 12.5 kPa @ 20°C

Relative density 0.687 @ 20°C

Solubility(ies) Practically insoluble in Water. Some of the Isopropanol may partition into water.

Auto-ignition temperature 400°C

Viscosity 0.5 cSt @ 20°C

Comments Information given concerns the concentrated solution.

9.2. Other information

Refractive index 1.378

Volatility 100% Highly volatile.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Strong

oxidising agents. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic

sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

gases or vapours.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Other health effects There is no evidence that the product can cause cancer.

General information To the best of our knowledge the chemical, physical and toxicological properties have not been

thoroughly investigated.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following

overexposure may include the following: Coughing. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Prolonged

inhalation of high concentrations may damage respiratory system.

Skin contact Product has a defatting effect on skin. May cause skin irritation/eczema. Repeated exposure may cause

skin dryness or cracking.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Route of exposure Inhalation

Brakefit Brake & Clutch Cleaner (Aerosol)

Toxicological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,841.0

Species Rat

ATE oral (mg/kg) 5,841.0

Acute toxicity - dermal

Acute toxicity dermal (LD50

mg/kg)

2,921.0

Species Rat

ATE dermal (mg/kg) 2,921.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅o

vapours mg/l)

23.5

Species Rat

ATE inhalation (vapours mg/l) 23.

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not classified. May cause slight transient irritation.

Skin sensitisation

Skin sensitisation Not considered to be a skin sensitizer

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity The current toxicological kowledge allows to not classify the product as a carcinogen.

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -

development

No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No known effects based on information supplied.

Target organs Central nervous system

Aspiration hazard

Aspiration hazard The fluid can enter the lungs and cause damage (chemical pneumonitis, possibly fatal).

Inhalation Vapours may cause drowsiness and dizziness.

Brakefit Brake & Clutch Cleaner (Aerosol)

Ingestion Avoid vomiting and stomach flushing because of the risk of aspiration. Ingestion may cause

severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact Irritating to skin.

Eye contact May cause temporary eye irritation.

BUTANE

Acute toxicity - oral

Notes (oral LD₅₀) No information available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀

vapours mg/l)

658.0

Species Rat

ATE inhalation (vapours mg/l) 658.0

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation No known effects from this product.

Skin sensitisation

Skin sensitisation No known effects from this product.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity No information available.

IARC carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -

development

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard No data available.

Brakefit Brake & Clutch Cleaner (Aerosol)

In low concentrations may cause narcotic effects, dizziness, headache, nausea, loss of co-

ordination and irregular cardiac activity. In high concentrations may cause loss of

mobility/consciousness and it may cause asphyxiation.

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,840.0

Species Rat Rat

Notes (oral LD₅₀)

ATE oral (mg/kg) 5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD50

mg/kg)

16.4

Species Rabbit Rabbit

ATE dermal (mg/kg) 12,874.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀

vapours mg/l)

25.5

Species Rat

ATE inhalation (vapours mg/l) 25.5

Skin corrosion/irritation

Animal data Not irritating

Serious eye damage/irritation

Serious eye damage/irritation Rabbit eyes: Severe eye irritation.

Respiratory sensitisation

Respiratory sensitisation Not available.

Skin sensitisation

Skin sensitisation Not considered to be a skin sensitizer

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Reproductive toxicity

Reproductive toxicity - fertility Does not interfere with fertility.

Reproductive toxicity -

development

No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Inhalation: May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure
Oral and inhalation repeated exposure studies demonstrated target organ effects in male rats

(kidney) and male/female mice (thyroid) by mechanisms of action that are not relevant to

humans. Based on available data the classification criteria are not met.

Aspiration hazard

Brakefit Brake & Clutch Cleaner (Aerosol)

Aspiration hazard Aspiration hazard if swallowed. The fluid can enter the lungs and cause damage (chemical

pneumonitis, possibly fatal).

Inhalation Drowsiness, discrientation, vertigo.

Ingestion No specific health hazards known.

Skin contact No specific health hazards known.

Eye contact Irritating to eyes. Splashes in eyes may cause strong pain. Vapour acts as irritant.

Acute and chronic health

hazards

Small amounts of liquid aspirated into the respiritory system during ingestion or from vomiting

may cause bronchopneumonia or pulmonary oedema.

ISOBUTANE

Acute toxicity - oral

Notes (oral LD₅₀) No information available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅o

vapours mg/l)

31.0

Species Rat

ATE inhalation (vapours mg/l) 3

Skin corrosion/irritation

Animal data Not irritating

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation Not expected to be a sensitizer.

Skin sensitisation

Skin sensitisation Not considered to be a skin sensitizer

Germ cell mutagenicity

Genotoxicity - in vitro

Negative.

Genotoxicity - in vivo

Negative.

Carcinogenicity

Carcinogenicity This substance has no evidence of carcinogenic properties.

IARC carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -

development

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

Brakefit Brake & Clutch Cleaner (Aerosol)

STOT - repeated exposure

No information available.

Aspiration hazard

Aspiration hazard No data available.

In low concentrations may cause narcotic effects, dizziness, headache, nausea, loss of co-

ordination and irregular cardiac activity. In high concentrations may cause loss of

mobility/consciousness and it may cause asphyxiation.

PROPANE

Acute toxicity - inhalation

Acute toxicity inhalation (LC $_{50}$

gases ppmV)

800,000.0

Species Rat

ATE inhalation (gases ppm) 800,000.0

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation Not expected to be a sensitizer.

Skin sensitisation

Skin sensitisation Not considered to be a skin sensitizer

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

IARC carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -

development

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure High concentrations may cause central nervous system depression resulting in headache,

 $\ \, \text{dizziness, and nausea. Continued inhalation may result in unconsciousness and/or death.}$

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No known effects based on information supplied.

Aspiration hazard

Aspiration hazard No data available.

General information RTECS Number: TX2275000.

Inhalation High concentrations may cause central nervous system depression resulting in headaches,

dizziness and nausea. Continued inhalation may result in unconsciousness and/or death.

Brakefit Brake & Clutch Cleaner (Aerosol)

SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term

adverse effects in the aquatic environment.

Ecological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: 11.4 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

LC₅o, 48 hours: 3 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - fish early life NOEC, 28 days: 1.534 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 1 mg/l, Daphnia magna

BUTANE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 24.11 mg/l, Fish

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 14.22 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 7.71 mg/l, Freshwater algae

PROPAN-2-OL

Acute aquatic toxicity

LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 24 hours: 9714 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 1000 mg/l, Scenedesmus subspicatus

Acute toxicity -

EC₅₀, : > 1000 mg/l, Activated sludge

microorganisms

ISOBUTANE

No known ecological damage caused by this product. Toxicity

Acute aquatic toxicity

LC₅₀, 96 hours: 27.98 mg/l, Fish Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 16.33 mg/l, Daphnia magna

Brakefit Brake & Clutch Cleaner (Aerosol)

PROPANE

Toxicity No known ecological damage caused by this product.

Acute aquatic toxicity

Acute toxicity - fish Physical properties indicate that petroleum gasses will rapidly volatilise from the aquatic

environment and that acute and chronic effects would not be observed in practice.

Acute toxicity - aquatic

invertebrates

Physical properties indicate that petroleum gasses will rapidly volatilise from the aquatic

environment and that acute and chronic effects would not be observed in practice.

Acute toxicity - aquatic plants Physical properties indicate that petroleum gasses will rapidly volatilise from the aquatic

environment and that acute and chronic effects would not be observed in practice.

12.2. Persistence and degradability

Persistence and degradability The product is degraded completely by photochemical oxidation. Volatile substances are degraded in the

atmosphere within a few days.

Ecological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Persistence and degradability The substance is readily biodegradable.

Biodegradation - Degradation (%) 98: 28 days

BUTANE

Biodegradation The substance is readily biodegradable.

PROPAN-2-OL

Persistence and degradability The product is expected to be biodegradable.

Biodegradation Water - Degradation (%) 95%: 21 days

ISOBUTANE

Persistence and degradability No data available.

PROPANE

Persistence and degradability The product is readily biodegradable. The product is degraded completely by photochemical

oxidation.

12.3. Bioaccumulative potential

Bioaccumulative potential The product contains potentially bioaccumulating substances. Accumulates in soil and sediment.

Ecological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Bioaccumulative potential Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single

substances and are not appropriate for this

complex substance.

BUTANE

Bioaccumulative potential The product is not bioaccumulating.

Brakefit Brake & Clutch Cleaner (Aerosol)

PROPAN-2-OL

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 0.05

ISOBUTANE

Bioaccumulative potential The product is not bioaccumulating.

PROPANE

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product contains substances which are insoluble in water and which may spread on water surfaces.

The product contains environmentally hazardous substances which are bound to particulate matter and

are retained in sediments.

Ecological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Mobility Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single

substances and are not appropriate for this

complex substance.

BUTANE

Mobility No data available.

PROPAN-2-OL

Mobility The product is soluble in water.

Adsorption/desorption

coefficient

Water - Koc: ~ 1.1 @ °C

Henry's law constant 0.00000338 atm m3/mol @ 25°C

ISOBUTANE

Mobility No data available.

PROPANE

Mobility Not relevant, due to the form of the product.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

BUTANE

Brakefit Brake & Clutch Cleaner (Aerosol)

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

PROPAN-2-OL

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

ISOBUTANE

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

PROPANE

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance

with the requirements of the local Waste Disposal Authority.

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of

waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a

licensed waste disposal contractor.

Waste class Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance

with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS (CONTAINS NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT)

Proper shipping name (IMDG) AEROSOLS (CONTAINS NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT)

Proper shipping name (ICAO) AEROSOLS (CONTAINS NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT)

Proper shipping name (ADN) AEROSOLS (CONTAINS NAPHTHA (PETROLEUM), HYDROTREATED, LIGHT)

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

Brakefit Brake & Clutch Cleaner (Aerosol)

ICAO subsidiary risk N/A
ADN class 2.1

Transport labels



14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ICAO packing group None

ADN packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Emergency Action Code N/A

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EH40/2005 Workplace exposure limits.

The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

EU legislation Dangerous Substances Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as

amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (as amended).

Guidance Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Brakefit Brake & Clutch Cleaner (Aerosol)

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by HS&E Manager.

Revision date 01/02/2021

Revision 1

SDS number 20819

SDS status Approved.

Hazard statements in full H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: may burst if heated.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.