



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

1.1 Product identifier

Trade name: BRAKE CLEANER HIGH POWER

Article number: R274

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

Product category: PC35: Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: TYGRIS Industrial

Unit 31, Kyle Road Industrial Estate

Irvine Ayrshire KA12 8LE

Tel +44 (0) 1294 311 066 Fax +44 (0) 1294 277 115

Email technical@tygrisindustrial.com

Further information obtainable from:

Technical Department

1.4 Emergency telephone

number:

Tel +44 (0) 1294 311 066





SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical hazards: Aerosol 1 - H222, H229

Health hazards: Skin Irrit. 2 – H315, Eye Irrit. 2 - H319, STOT SE 3 - H336

Environmental hazards: Aquatic Chronic 2 – H411

2.2. Label elements

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.

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark GHS09: Environmental







Signal Word: Danger

Precautionary Statements: P102: Keep out of reach of children.

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.

P260: Do not breathe spray.

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

P501: Dispose of contents/container in accordance with local regulations.

Contains: Naphtha (petroleum), hydrotreated light, propan-2-ol

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.



SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

(Registration number: 01-2119475514-35)

EC	CAS	Index number	CLP Classification	Percent
921-024-6	-	-	Flam. Liq. 2 - H225 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411 Skin Irrit. 2 - H315 STOT SE 3 - H336	75-100%

PROPAN-2-OL

(Registration number: 01-2119457558-25-xxxx)

200-661-7	67-63-0	603-117-00-0	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	12.5-20%
			STOT SE 3 - H336	

CARBON DIOXIDE

204-696-9	124-38-9	-	Press. Gas L, H280	0.1-1%

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact: Generally the product does not irritate the skin.

Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion: Drink plenty of water and provide fresh air. Call for a doctor immediately.

Inhalation: Supply fresh air; consult doctor in case of complaints.

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

Important symptoms /

effects:

No further relevant information available.

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

Immediate / special

No further relevant information available.

treatment:





SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

Unsuitable extinguishing

media:

Water with full jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Special protective equipment

for firefighters:

No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation. Keep away from ignition sources.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective

authorities in case of seepage into water course or sewage system. Do not allow to

enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on

personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace.

Fire and explosion

protection:

Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric

lights. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool location. Observe official regulations on storing packagings with

pressurised containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Specific end use(s):

No further relevant information available.





SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

PROPAN-2-OL 67-63-0

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

CARBON DIOXIDE 124-38-9

WEL 5000 ppm, 9150 mg/m ³	WEL 15000 ppm, 27400 mg/m³	-
--------------------------------------	----------------------------	---

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment:



General protective and hygienic measures:

Wash hands before breaks and at the end of work. Do not inhale gases / fumes /

aerosols.

Respiratory protection:

Not required.

Hand protection:

Not required.

Eye protection:

Tightly sealed goggles.

SAFETY DATA SHEET



BRAKE CLEANER HIGH POWER **R274**

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol
Colour: Clear

Odour: Solvent-like

Initial boiling point and

range:

Not applicable, as aerosol.

Flash point: Not applicable, as aerosol.

Ignition temperature: >200°C (> 392°F)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits: Lower: 0.6 Vol % Upper: 12.0 Vol % **Vapour pressure:** 85 hPa (64 mm Hg) @ 20°C (68°F)

Density: 0.722 g/cm³ (6.025 lbs/gal) @ 20°C (68°F)

Solubility(ies): Not miscible or difficult to mix.

Solvent content: 99.0% organic solvents

EU-VOC: 714.8 g/l **EU-VOC in %:** 99.0%

9.2. Other information

Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid:

No further relevant information available.

10.5. Incompatible materials

Materials to avoid:

No further relevant information available.

10.6. Hazardous decomposition products

Hazardous decomposition

products:

No dangerous decomposition products known.





SECTION 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

Oral	RAT	LD50	>5840	mg/kg
Dermal	RBT	LD50	>2920	mg/kg
Inhalative	RAT	4H LC50	>2	mg/m ³

PROPAN-2-OL 67-63-0

Oral	RAT	LD50	5045	mg/kg
Dermal	RBT	LD50	12800	mg/kg
Inhalative	RAT	4H LC50	30	mg/m ³

Primary irritant effect

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Inhalation: No data available.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: No data available. Carcinogenicity: No data available. Reproductive toxicity: No data available.

STOT-single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: No data available. Aspiration hazard: No data available.



Version 2 Page 7 of 11



SECTION 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

DAPHNIA MAGNA	48H EC50	3	mg/l
PSEUDOKIRCHNERIELLA SUBCAPITATA	72H LC50	30-100	mg/l
FISH	96H LC50	11.4	mg/l

PROPAN-2-OL 67-63-0

DAPHNIA MAGNA	48H EC50	13299	mg/l
FISH	96H LC50 (dynamic)	4200	mg/l

12.2. Persistence and degradability

Persistence and degradability:

No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil Mobility:

No further relevant information available.

Additional ecological

information:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information: Must not be disposed together with household garbage. Do not allow product to reach

sewage system.

European waste catalogue: 2001 13* solvents.

15 01 04 metallic packaging.

Uncleaned packaging: Non contaminated packagings may be recycled.







SECTION 14: Transport information

UN Number (ADR): 1950
UN Number (IMDG): 1950
UN Number (IATA): 1950

14.2 UN proper shipping name

Proper shipping name

(ADR):

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

Proper shipping name

(IMDG):

AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT

Proper shipping name

(IATA):

AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR class: 2,5F Gases

ADR label: 2.1 IMDG, IATA class: 2.1 IMDG, IATA label: 2.1

Transport labels:





14.4. Packing group

Packing group: Not applicable.

14.5 Environmental hazards

Marine pollutant: Yes. Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

Warning: Gases
EmS: F-D, S-U

Stowage code: SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre:

Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation code: SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For

AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate

subdivision of class 2.





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:

Transport/Additional information:

ADR/IMDG Limited quantities (LQ)

1L

ADR/IMDG Excepted

Code: E0

quantities (EQ)

Not permitted as Excepted Quantity

ADR/IMDG Transport

category:

2

ADR/IMDG Tunnel restriction code:

D

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances

- ANNEX I:

None of the ingredients is listed.

Seveso category:

E2 Hazardous to the Aquatic Environment P3b

FLAMMABLE AEROSOLS

Qualifying quantity (tonnes)

for the application of lower-tier

requirements:

200 t

Qualifying quantity (tonnes) for the application of upper-

tier requirements:

500 t

Chemical safety assessment: No chemical safety assessment has been carried out.





SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

2015/830.

Phrases used in s.2 and s.3: H225: Highly flammable liquid and vapour.

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.

Phrases used in s.2 and s.3: RID: Règlement international concernant le transport des marchandises dangereuses par

chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List

of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal

concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard -

Category 2

Legal disclaimer The above information is believed to be correct but does not purport to be all inclusive and

shall be used only as a guide. This company shall not be held liable for any damage

resulting from handling or from contact with the above product.