

1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Trade name:** R258 STAINLESS STEEL CLEANER**Article number:** R258**1.2. Relevant identified uses of the substance or mixture and uses advised against****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**2. Hazards identification****2.1. Classification of the substance or mixture****Classification (1999/45/EEC)** F+;R12. R66.**2.2. Label elements****Detergent Labelling:** >= 30% Aliphatic hydrocarbons
< 5% perfumes
Contains CITRAL**Labelling**

Extremely flammable

Risk PhrasesR12 Extremely flammable.
R66 Repeated exposure may cause skin dryness or cracking.**Safety Phrases**S16 Keep away from sources of ignition - No smoking.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.
S2 Keep out of the reach of children.
S23 Do not breathe vapour/spray.**2.3. Other hazards**

3. Composition/information on ingredients

3.2. Mixtures

BUTANE	5-10%
CAS-No.: 106-97-8	EC No.: 203-448-7
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12
ISOBUTANE	1-5%
CAS-No.: 75-28-5	EC No.: 200-857-2
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12
NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT	30-60%
CAS-No.: 64742-49-0	EC No.: 265-151-9
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R38. F;R11. N;R51/53. R67.
PROPANE	10-30%
CAS-No.: 74-98-6	EC No.: 200-827-9
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12

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

4. First aid measures

4.1. Description of first aid measures

General information	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues
Inhalation	Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion	DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
Skin contact	Wash the skin immediately with soap and water. Get medical attention if any discomfort continues
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. 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

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

5. Firefighting measures

5.1. Extinguishing Media Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards: Aerosol cans may explode in a fire

5.3. Advice for firefighters

Special Fire Fighting Procedures: Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

7. Handling and storage

7.1. Precautions for safe handling Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C

7.3. Specific end use(s)

8. Exposure controls/personal protection

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min	
		ppm	mg/m ³	ppm	mg/m ³
BUTANE	WEL	600 ppm	1450 mg/m ³	750 ppm	1810 mg/m ³
ISOBUTANE	WEL	800 ppm		800 ppm	
NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT			1200 mg/m ³	60 ppm	216 mg/m ³

Ingredient Comments WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective Equipment



Engineering measures: Provide adequate general and local exhaust ventilation

Respiratory equipment No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge

Hand protection Use protective gloves

Eye protection Use approved safety goggles or face shield

Other Protection Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact

Hygiene measures DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour:	Typical
Odour:	Characteristic.
Flammability Limit - Lower(%)	0.8
Flammability Limit - Upper(%)	9.0

9.2. Other information

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability Stable under normal temperature conditions

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

10.5. Incompatible materials

10.6. Hazardous Decomposition Products: Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. Toxicological information

11.1. Information on toxicological effects

Inhalation May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.

Skin contact Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema

Eye contact Irritating to eyes. May cause chemical eye burns

Route of entry Inhalation. Skin and/or eye contact

12. Ecological information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. Disposal considerations

13.1 Waste treatment methods Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements

14. Transport information

14.1. UN number

UN No. (ADR/RID/ADN) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class 2

ADR/RID/ADN Class Class 2: Gases

ADR Label No. 2.1

IMDG Class 2.1

ICAO Class/Division 2.1

14.4. Packing group

ADR/RID/ADN Packing group N/A

IMDG Packing group N/A

ICAO Packing group N/A

14.5. Environmental hazards Environmentally Hazardous Substance/Marine Pollutant
No

14.6. Special precautions for user

EMS F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. Regulatory information

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

UK Regulatory References The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.
The Control of Substances Hazardous to Health Regulations 2002

Statutory Instruments The Control of Substances Hazardous to Health Regulations 2002.
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002

Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply

Guidance Notes Workplace Exposure Limits EH40.
Introduction to Local Exhaust Ventilation HS(G)37.
CHIP for everyone HSG(108).

15.2. Chemical Safety Assessment

16. Other information

Risk Phrases In Full	R12 Extremely flammable. R10 Flammable. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.
Hazard Statements In Full	EUH066 Repeated exposure may cause skin dryness or cracking. H220 Extremely flammable gas. H222 Extremely flammable aerosol.