SAFETY DATA SHEET
STAINLESS STEEL CLEANER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name STAINLESS STEEL CLEANER
Internal Id A072

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

1.3. Details of the supplier of the safety data sheet
Supplier ARROW SOLUTIONS
RAWDON ROAD
MOIRA
SWADLINCOTE
DERBYSHIRE
DE12 6DA
TEL: +44 (0)1283 221044
EMERGENCY: +44 (0) 777 8505 330
FAX: +44 (0)1283 225731
sales@arrowchem.com

1.4. Emergency telephone number
+44 (0) 777 8505 330

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.2. Label elements
Detergent Labelling:
15 - < 30% Aliphatic hydrocarbons
< 5% non-ionic surfactants
Contains 1,2-BENZOISOTHIAZOL-3(2H)-ONE

Risk Phrases
R12 Extremely flammable.

Safety Phrases
A1 Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2 Do not spray on a naked flame or any incandescent material.
S2 Keep out of the reach of children.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour/spray.
2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>REFINED MINERAL OIL</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 8042-47-5</td>
<td></td>
</tr>
<tr>
<td>EC No.: 232-455-8</td>
<td></td>
</tr>
<tr>
<td>Registration Number: 01-2119487078-27-xxxx</td>
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</tr>
</tbody>
</table>

- Classification (EC 1272/2008)
  - Asp. Tox. 1 - H304

- Classification (67/548/EEC)
  - Xn;R65.

<table>
<thead>
<tr>
<th>HYDROCARBON PROPELLANT</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 68476-85-7</td>
<td></td>
</tr>
<tr>
<td>EC No.: 270-704-2</td>
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</tr>
</tbody>
</table>

- Classification (EC 1272/2008)
  - Flam. Gas 1 - H220

- Classification (67/548/EEC)
  - F+;R12.

<table>
<thead>
<tr>
<th>ISOPARAFFINIC HYDROCARBON</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 90622-57-4</td>
<td></td>
</tr>
<tr>
<td>EC No.: 292-459-0</td>
<td></td>
</tr>
</tbody>
</table>

- Classification (EC 1272/2008)
  - Flam. Liq. 3 - H226
  - EUH066
  - Asp. Tox. 1 - H304
  - Aquatic Chronic 4 - H413

- Classification (67/548/EEC)
  - Xn;R65.
  - R10,R53,R66.

<table>
<thead>
<tr>
<th>ALCOHOL ETHOXYLATE SURFACTANT</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 24938-91-8</td>
<td></td>
</tr>
<tr>
<td>EC No.: 224-540-3</td>
<td></td>
</tr>
</tbody>
</table>

- Classification (EC 1272/2008)
  - Eye Dam. 1 - H318

- Classification (67/548/EEC)
  - Xi;R41.

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

- **Inhalation**
  Move into fresh air and keep at rest.

- **Ingestion**
  Rinse mouth thoroughly. Get medical attention if any discomfort continues.

- **Skin contact**
  Wash skin with soap and water. Get medical attention if any discomfort continues.

- **Eye contact**
  Rinse the eye with water immediately. Get medical attention if any discomfort continues.

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

- **Inhalation**
  Vapours may cause drowsiness and dizziness.
STAINLESS STEEL CLEANER

Ingestion
Due to the physical nature of this material it is unlikely that swallowing will occur.

Skin contact
Prolonged skin contact may cause redness and irritation.

Eye contact
Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed
No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Extinguish with foam, carbon dioxide or dry powder.

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
Use water to keep fire exposed containers cool and disperse vapours.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Do not smoke, use open fire or other sources of ignition. Do not breathe vapour.

6.2. Environmental precautions
Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb with inert, damp, non-combustible material, then flush area with water.

6.4. Reference to other sections
For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from heat, sparks and open flame. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store at moderate temperatures in dry, well ventilated area.

Storage Class
Chemical storage.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCARBON PROPELLANT</td>
<td>WEL</td>
<td>600 ppm</td>
<td>1430 mg/m³</td>
<td>750 ppm 1780 mg/m³</td>
</tr>
<tr>
<td>ISOPARAFFINIC HYDROCARBON</td>
<td>WEL</td>
<td>1200 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refined Mineral Oil</td>
<td></td>
<td></td>
<td>5 mg/m³ (Oil mist)</td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Protective equipment

Engineering measures
No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Hand protection
For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Rubber, neoprene or PVC.

Eye protection
Wear approved chemical safety goggles where eye exposure is reasonably probable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

9.2. Other information
Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Not determined.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid
No incompatible groups noted.

10.6. Hazardous decomposition products
Fire or high temperatures create: Carbon dioxide (CO2). Carbon monoxide (CO). Ammonia or amines.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation
Vapours may cause drowsiness and dizziness.

Ingestion
Gastrointestinal symptoms, including upset stomach.

Skin contact
Repeated exposure may cause skin dryness or cracking.

Eye contact
Irritation of eyes and mucous membranes.
Toxicological information on ingredients.

**ISOPARAFFINIC HYDROCARBON (CAS: 90622-57-4)**

**REFINED MINERAL OIL (CAS: 8042-47-5)**

Toxicological information
No information available.

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**
No information available.
> 5000 mg/kg Rat

**Acute Toxicity (Dermal LD50)**
No information available.
> 2000 mg/kg Rabbit

**Acute Toxicity (Inhalation LC50)**
No information available.
> 5200 mg/l (dust/mist) Rat 4 hours

**Skin Corrosion/Irritation:**
Not irritating.

**Respiratory or skin sensitisation:**

**Respiratory sensitisation**
No information available.

**Skin sensitisation**
No information available.

**Carcinogenicity:**

**Carcinogenicity**
No information available.

**Reproductive Toxicity:**

**Reproductive Toxicity - Fertility**
No information available.

**Reproductive Toxicity - Development**
No information available.

**Specific target organ toxicity - single exposure:**

**STOT - Single exposure**
No information available.

**Specific target organ toxicity - repeated exposure:**

**STOT - Repeated exposure**
No information available.

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**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**
The product is not expected to be toxic to aquatic organisms.

**12.1. Toxicity**

**Ecological information on ingredients.**

**REFINED MINERAL OIL (CAS: 8042-47-5)**

**Acute Toxicity - Fish**
Not available.

**Acute Toxicity - Aquatic Plants**
Not available.

**Acute Toxicity - Microorganisms**
Not available.
12.2. Persistence and degradability

Degradability
The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
The product is not bioaccumulating.

12.4. Mobility in soil

Mobility:
The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 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 Class 2.1: Flammable gases.
IMDG Class 2.1
ICAO Class/Division 2.1
Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group 5F

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

Tunnel Restriction Code (D)
STAINLESS STEEL CLEANER

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References
Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments
Control of Substances Hazardous to Health.

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation
Dangerous Preparations Directive 1999/45/EC.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Date 28/08/2012
Revision 1.1
Supersedes date 04/07/2012
Date 13/11/09

Risk Phrases in Full
R12 Extremely flammable.
R10 Flammable.
R65 Harmful: may cause lung damage if swallowed.
R53 May cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R41 Risk of serious damage to eyes.

Hazard Statements in Full
EUH066 Repeated exposure may cause skin dryness or cracking.
H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H413 May cause long lasting harmful effects to aquatic life.

Disclaimer
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.