



# 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

#### 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

Manufacturer 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

Classification (1999/45/EEC) F+;R12.

#### 2.2. Label elements

##### Detergent Labelling:

|            |                               |
|------------|-------------------------------|
| 15 - < 30% | Aliphatic hydrocarbons        |
| < 5%       | non-ionic surfactants         |
| Contains   | 1,2-BENZOISOTHIAZOL-3(2H)-ONE |

##### Labelling



Extremely flammable

# STAINLESS STEEL CLEANER

## 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.  
 S35 This material and its container must be disposed of in a safe way.  
 S51 Use only in well-ventilated areas.

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

|  |  |   |               |
|--|--|---|---------------|
| <b>REFINED MINERAL OIL</b>   |  |   | <b>10-30%</b> |
| <b>CAS-No.: 8042-47-5</b>  | <b>EC No.: 232-455-8</b>                               | <b>Registration Number: 01-2119487078-27-xxxx</b> |               |
| Classification (EC 1272/2008)<br>Asp. Tox. 1 - H304  | Classification (67/548/EEC)<br>Xn;R65.                 |   |               |
| <b>HYDROCARBON PROPELLANT</b>  |  |   | <b>10-30%</b> |
| <b>CAS-No.: 68476-85-7</b>   | <b>EC No.: 270-704-2</b>                               |   |               |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220  | Classification (67/548/EEC)<br>F+;R12.                 |   |               |
| <b>ISOPARAFFINIC HYDROCARBON</b>   |  |   | <b>5-10%</b>  |
| <b>CAS-No.: 90622-57-4</b>   | <b>EC No.: 292-459-0</b>                               | <b>Registration Number: 01-2119471991-29-XXXX</b> |               |
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>EUH066<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 4 - H413 | Classification (67/548/EEC)<br>Xn;R65.<br>R10,R53,R66. |   |               |
| <b>ALCOHOL ETHOXYLATE SURFACTANT</b>   |  |   | <b>1-5%</b>   |
| <b>CAS-No.: 24938-91-8</b>   | <b>EC No.: 224-540-3</b>                               |   |               |
| Classification (EC 1272/2008)<br>Eye Dam. 1 - H318   | Classification (67/548/EEC)<br>Xi;R41.                 |   |               |
| <b>SODIUM HYDROXIDE</b>  |  |   | <b>0-1%</b>   |
| <b>CAS-No.: 1310-73-2</b>  | <b>EC No.: 215-185-5</b>                               | <b>Registration Number: 01-2119457892-27</b>      |               |
| Classification (EC 1272/2008)<br>Skin Corr. 1A - H314  | Classification (67/548/EEC)<br>C;R35                   |   |               |

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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. Get medical attention if any discomfort continues.

#### **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.

#### **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

#### **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.

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## 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.

## 7.3. Specific end use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

| Name                      | STD | TWA - 8 Hrs |                                | STEL - 15 Min |                        | Notes |
|---------------------------|-----|-------------|--------------------------------|---------------|------------------------|-------|
| HYDROCARBON PROPELLANT    | WEL | 600 ppm     | 1430 mg/m <sup>3</sup>         | 750 ppm       | 1780 mg/m <sup>3</sup> |       |
| ISOPARAFFINIC HYDROCARBON | WEL |             | 1200 mg/m <sup>3</sup>         |               |                        |       |
| REFINED MINERAL OIL       |     |             | 5 mg/m <sup>3</sup> (Oil mist) |               |                        |       |
| SODIUM HYDROXIDE          | WEL |             |                                |               | 2 mg/m <sup>3</sup>    |       |

WEL = Workplace Exposure Limit.

### 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

|            |                   |
|------------|-------------------|
| Appearance | Aerosol.          |
| Odour      | Mild.             |
| Solubility | Soluble in water. |

### 9.2. Other information

## 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 (CO<sub>2</sub>). Carbon monoxide (CO).

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## 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.

SODIUM HYDROXIDE (CAS: 1310-73-2)

#### Acute toxicity:

**Acute Toxicity (Oral LD50)**

2000 mg/kg Rat

ISOPARAFFINIC HYDROCARBON (CAS: 90622-57-4)

# STAINLESS STEEL CLEANER

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.

## SECTION 12: ECOLOGICAL INFORMATION

### **Ecotoxicity**

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

### **12.1. Toxicity**

#### **Acute Toxicity - Fish**

Not determined.

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## Ecological information on ingredients.

### SODIUM HYDROXIDE (CAS: 1310-73-2)

#### **Acute Toxicity - Fish**

LC50 48 hours ~ 145 mg/l Poecilia reticulata (Guppy)

REACH dossier information

#### **Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours ~ 76 mg/l Daphnia magna

REACH dossier information

### 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**

There are no data on the degradability of this product.

## 12.3. Bioaccumulative potential

### **Bioaccumulative potential**

No data available on bioaccumulation.

## 12.4. Mobility in soil

### **Mobility:**

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

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## 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)

## 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

#### **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

|                        |          |
|------------------------|----------|
| <b>Revision Date</b>   | 04/07/12 |
| <b>Revision</b>        | 1        |
| <b>Supersedes date</b> | 13/11/09 |
| <b>Date</b>            | 13/11/09 |

#### **Risk Phrases In Full**

|     |   |
|-----|---|
| R35 | Causes severe burns.  |
| 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.           |
| H314   | Causes severe skin burns and eye damage.                |
| H318   | Causes serious eye damage.                              |
| H413   | May cause long lasting harmful effects to aquatic life. |



# STAINLESS STEEL CLEANER

## 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.