

# Trafalgar Chemicals - Safety Data Sheet

**0336-DH**

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1

Revision date:

16 April 2021

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## Section 1. Identification

### 1.1 Product Identifier 0336-DH

Product Name FORMIC ACID 98% w/w A.R. 2.5L.

CAS Number 64-18-6

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula  $\text{HCOOH} = 46.03$ 

### 1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### 1.3 Supplier Trafalgar Chemicals



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### 1.4 Emergency Telephone (08:00-17:00) +44(0) 116 2879460 (24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 &amp; UK SI 2020/1567

Skin corrosion/irritation, category 1A

H314: Causes severe skin burns and eye damage.

### 2.2 Label elements

Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 &amp; UK SI 2020/1567

Signal word Danger

Hazard Pictograms



Hazard Statements Causes severe skin burns and eye damage.

Precautionary Statements    Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

## Section 3. Composition

### 3.1 Substances

| Component   | CAS No. | EC No.    | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE) |
|-------------|---------|-----------|-----------------------|----------|-----------------------------------|
| Formic acid | 64-18-6 | 200-579-1 | 01-2119491174-37-XXXX | >98%     | Skin Corr. 1A                     |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.                                                                                                                                                                                           |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.                                                                                                                                                                             |
| Inhalation                           | Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Ingestion                            | If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.                    |
| Personal protection for first aiders | Wear protective gloves / eye protection.                                                                                                                                                                                                                                                                             |

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------|
| Extinguishing Media | Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool. |
| Unsuitable Media    | Do not use water jet.                                                                                                    |

### 5.2 Special hazards arising from the substance or mixture

|         |                                    |
|---------|------------------------------------|
| Hazards | Vapour-air mixtures are explosive. |
|---------|------------------------------------|

### 5.3 Advice for firefighters

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Protection | Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2 Environmental precautions

|               |                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.3 Methods and material for containment and cleaning up

|                |                                                                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Major Spillage | Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.                          |
| Minor Spillage | Contain and absorb on inert material. Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash to drain with copious amounts of water. |

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

| Component   | CAS No  | Concentration | Workplace Exposure Limits |                          |   |
|-------------|---------|---------------|---------------------------|--------------------------|---|
|             |         |               | Long Term (8hr TWA)       | Short Term 15min period) |   |
| Formic acid | 64-18-6 | >98%          | 5.0 ppm                   | 9.6 mg/m-3               | - |

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

#### 8.2 Exposure controls

|                        |                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory Protection | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus. |
| Hand Protection        | Use PVC gauntlets.                                                                                                                                                                                                |
| Eye Protection         | Use chemical full face shield.                                                                                                                                                                                    |
| Skin Protection        | Wear PVC oversuit.                                                                                                                                                                                                |
| Special Hazards        | No special precautions required.                                                                                                                                                                                  |

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

|                       |                                   |
|-----------------------|-----------------------------------|
| Appearance            | Clear colourless liquid.          |
| Odour                 | Pungent and intensely irritating. |
| pH                    | Not applicable                    |
| Boiling Point         | 100.8°C                           |
| Melting Point         | 8.4°C                             |
| Flash Point           | 69°C (Closed cup)                 |
| Upper Flammable Limit | 57%                               |
| Lower Flammable Limit | 18%                               |
| Auto Ignition         | 540°C                             |
| Explosive Properties  | Slight.                           |
| Oxidising Properties  | No.                               |
| Vapour Pressure       | 40mmHg @ 20°C                     |
| Relative Density      | 1.2201                            |
| Water Solubility      | Completely miscible in water.     |

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |                                                                                  |
|------|------------------------------------|----------------------------------------------------------------------------------|
| 10.1 | Reactivity                         | No data available.                                                               |
| 10.2 | Chemical Stability                 | Stable under normal conditions                                                   |
| 10.3 | Possibility of hazardous reactions | No data available.                                                               |
| 10.4 | Conditions to Avoid                | Hot surfaces, naked flames or other sources of ignition.                         |
| 10.5 | Incompatible materials             | Alkalis. Strong oxidising agents. Mineral acids.                                 |
| 10.6 | Hazardous Decomposition Products   | None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |                                                                                                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                 | The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.                                                                                                   |
| Skin                 | The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.                                                                                                                                                                                      |
| LD50 Skin            | Not available                                                                                                                                                                                                                                                                  |
| Ingestion            | Causes severe corrosion of the mouth, throat and gastro-intestinal tract.                                                                                                                                                                                                      |
| LD50 Oral            | 1210mg/kg Rat                                                                                                                                                                                                                                                                  |
| Inhalation           | Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes lining the nose, throat and upper respiratory tract. |
| LD50 Inhalation      | Not available                                                                                                                                                                                                                                                                  |
| TCLo                 | Not available                                                                                                                                                                                                                                                                  |
| Carcinogenicity      | Not considered to be a carcinogen.                                                                                                                                                                                                                                             |
| Mutagenicity         | Not considered to be a mutagen.                                                                                                                                                                                                                                                |
| Reproductive Effects | None identified.                                                                                                                                                                                                                                                               |
| Other Information    | The irritant effect provides warning that control of exposure is needed.                                                                                                                                                                                                       |

## Section 12. Ecological

|      |                                  |                                                                                                              |
|------|----------------------------------|--------------------------------------------------------------------------------------------------------------|
| 12.1 | Toxicity                         | Readily bio-degraded in the environment. Slightly toxic to aquatic species but is unlikely to bioaccumulate. |
|      | LC50 Algal                       | Not available                                                                                                |
|      | LC50 Crustacea                   | Not available                                                                                                |
|      | LC50 Fish                        | Not available                                                                                                |
| 12.2 | Persistence and degradability    | No data available.                                                                                           |
| 12.3 | Bioaccumulative potential        | No data available.                                                                                           |
| 12.4 | Mobility in soil                 | No data available.                                                                                           |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.                                                                                     |
| 12.6 | Other adverse effects            | None known at present.                                                                                       |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Disposal Methods       | Dispose of in a licensed incinerator. Do not dispose of as domestic waste.                           |
| Contaminated Packaging | Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion. |

## Section 14. Transport Information

|                                   |                                  |
|-----------------------------------|----------------------------------|
| 14.1 UN Number                    | 1779                             |
| 14.2 Proper Shipping Name         | Formic acid                      |
| 14.3 Transport classes            |                                  |
| UN classification                 | 8                                |
| Subsidiary hazard(s)              | 3                                |
| Transport category                | 2                                |
| ADR Hazard ID                     | 80                               |
| Tunnel Restriction Code           | D/E                              |
| 14.4 Packing Group                | II                               |
| 14.5 Environment hazards          | See section 12.                  |
| 14.6 Special precautions for user | No special precautions required. |
| 14.7 Transport in bulk            | Not transported in bulk.         |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Classification Skin corrosion/irritation, category 1A

Signal word Danger

Hazard Pictograms



Hazard Statements H314  
Causes severe skin burns and eye damage.

Precautionary Statements P280, P264, P363, P301+P330+P331, P303+P361+P353, P305+P351+P338  
Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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