# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

# Hydrochloric Acid with KCI, FE-1, FE-2, BDF-443, and Scaletreat 852NW

Revision Date: 10-Jul-2014 Revision Number: 2

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

#### 1.1. Product Identifier

Product Name Hydrochloric Acid with KCI, FE-1, FE-2, BDF-443, and Scaletreat 852NW

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

Recommended Use Additive

# 1.3. Details of the supplier of the safety data sheet

Halliburton Energy Services

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN

United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

# 1.4. Emergency telephone number

+44 1224 795277 or +1 281 575 5000

| Emergency telephone - § | 45 - (EC)1272/2008  |
|-------------------------|---|
| Europe                  | 112   |
| Denmark                 | Poison Control Hotline (DK): +45 82 12 12 12  |
| France                  | ORFILA (FR): + 01 45 42 59 59   |
| Germany                 | Poison Center Berlin (DE): +49 030 30686 790  |
| Italy                   | Poison Center, Milan (IT): +39 02 6610 1029   |
| Netherlands             | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| Norway                  | Poisons Information (NO):+ 47 22 591300   |
| Poland                  | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97                                  |
| Spain                   | Poison Information Service (ES): +34 91 562 04 20   |
| United Kingdom          | NHS Direct (UK): +44 0845 46 47   |

# **SECTION 2: Hazards Identification**

# 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008** 

| Skin Corrosion / irritation         | Category 1 - H314 |
|-------------------------------------|-------------------|
| Serious Eye Damage / Eye Irritation | Category 1 - H318 |

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

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Classification C - Corrosive.

**Risk Phrases** 

R34 Causes burns.

#### 2.2. Label Elements

#### **Hazard Pictograms**



Signal Word Danger

#### **Hazard Statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

# Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Contains** 

SubstancesCAS NumberHydrochloric acid7647-01-0Acetic acid64-19-7

#### 2.3. Other Hazards

None known

# **SECTION 3: Composition/information on Ingredients**

| Substances        | EINECS    | CAS Number | PERCENT<br>(w/w) | EEC Classification | EU - CLP Substance<br>Classification   | REACH No.         |
|-------------------|-----------|------------|------------------|--------------------|--|-------------------|
| Hydrochloric acid | 231-595-7 | 7647-01-0  | 5 - 10%          | C; R34<br>Xi; R37  | Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H335)<br>Met. Corr. 1 (H290) | 01-2119484862-27  |
| Acetic acid       | 200-580-7 | 64-19-7    | 5 - 10%          | R10<br>C; R35      | Skin Corr. 1A (H314)<br>Flam. Lig. 3 (H226)  | No data available |

# For the full text of the R-phrases mentioned in this Section, see Section 16

3.1. SubstancesNot applicable3.2. MixturesMixture

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

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**Eyes** In case of contact, or suspected contact, immediately flush eyes with plenty of

water for at least 15 minutes and get medical attention immediately after

flushina.

Skin In case of contact, immediately flush skin with plenty of soap and water for at

least 15 minutes. Get medical attention. Remove contaminated clothing and

launder before reuse.

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and Ingestion

seek medical attention. Never give anything by mouth to an unconscious

person.

#### 4.2. Most Important symptoms and effects, both acute and delayed

May cause eye and skin burns.

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

Notes to Physician Treat symptomatically

# **SECTION 5: Firefighting Measures**

# 5.1. Extinguishing media

# **Suitable Extinguishing Media**

All standard fire fighting media

#### Extinguishing media which must not be used for safety reasons

None known.

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

#### **Special Exposure Hazards**

Decomposition in fire may produce toxic gases. Reaction with steel and certain other metals generates flammable hydrogen gas. Do not allow runoff to enter waterways.

#### 5.3. Advice for firefighters

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

# SECTION 6: Accidental release measures

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

Use appropriate protective equipment.

See Section 8 for additional information

#### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

# 6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

#### 6.4. Reference to other sections

See Section 8 and 13 for additional information.

# **SECTION 7: Handling and Storage**

# 7.1. Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

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

Store away from alkalis. Store in a cool well ventilated area. Keep container closed when not in use.

# 7.3. Specific End Use(s)

**Exposure Scenario** No information available No information available **Other Guidelines** 

# **SECTION 8: Exposure Controls/Personal Protection**

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# 8.1. Control parameters

| _             |    |      |      |    |     |
|---------------|----|------|------|----|-----|
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|               |    |      |      |    |     |

| Exposure Emilio   |                  |                |  |                            |                |
|-------------------|------------------|----------------|--|----------------------------|----------------|
| Substances        | ances CAS Number |                | UK OEL   | Netherlands                | France OEL     |
| Hydrochloric acid | 7647-01-0        | Not applicable | STEL: 5 ppm STEL: 8<br>mg/m³<br>TWA: 1 ppm TWA: 2<br>mg/m³ | STEL: 15 mg/m <sup>3</sup> | Not applicable |
| Acetic acid       | 64-19-7          | 10 ppm         | Not applicable   | Not applicable             | 10 ppm         |

| Substances        | CAS Number | Germany MAK/TRK  | Spain   | Portugal                    | Finland   |  |
|-------------------|------------|--|---|-----------------------------|---|--|
| Hydrochloric acid | 7647-01-0  | TWA: 2 ppm TWA: 3 mg/m <sup>3</sup>                          | 10 ppm VLA-EC; 15<br>mg/m³ VLA-EC                                       | Not applicable              | STEL: 5 ppm STEL:<br>7.6 mg/m <sup>3</sup>                    |  |
|                   |            | MAK: 2 ppm MAK: 3.0<br>mg/m <sup>3</sup>                     | VLA-ED: 5 ppm<br>VLA-ED: 7.6 mg/m <sup>3</sup>                          |                             |   |  |
| Acetic acid       | 64-19-7    | TWA: 10 ppm TWA:<br>25 mg/m³<br>MAK: 10 ppm MAK:<br>25 mg/m³ | 15 ppm VLA-EC; 37<br>mg/m³ VLA-EC<br>VLA-ED: 10 ppm<br>VLA-ED: 25 mg/m³ | STEL: 15 ppm<br>TWA: 10 ppm | STEL: 10 ppm STEL:<br>25 mg/m³<br>TWA: 5 ppm TWA: 13<br>mg/m³ |  |

| Substances        | CAS Number | Austria        | Ireland        | Switzerland    | Norway   |
|-------------------|------------|----------------|----------------|----------------|--|
| Hydrochloric acid | 7647-01-0  | Not applicable | Not applicable | Not applicable | Not applicable   |
| Acetic acid       | 64-19-7    | Not applicable | Not applicable | Not applicable | STEL: 20 ppm STEL:<br>37.5 mg/m³<br>TWA: 10 ppm TWA:<br>25 mg/m³ |

| Substances        | CAS Number | Italy  | Poland   | Hungary   | Czech Republic            |
|-------------------|------------|--|--|---|---------------------------|
| Hydrochloric acid | 7647-01-0  | STEL: 10 ppm STEL:<br>15 mg/m³<br>TWA: 5 ppm TWA: 8<br>mg/m³ | NDSCh: 10 mg/m <sup>3</sup><br>NDS: 5 mg/m <sup>3</sup>  | TWA: 8 mg/m³<br>STEL: 16 mg/m³                          | TWA: 8 mg/m³              |
| Acetic acid       | 64-19-7    | 10 ppm   | NDSCh: 30 mg/m <sup>3</sup><br>NDS: 15 mg/m <sup>3</sup> | TWA: 25 mg/m <sup>3</sup><br>STEL: 25 mg/m <sup>3</sup> | TWA: 25 mg/m <sup>3</sup> |

| Substances        | CAS Number | Denmark                               |
|-------------------|------------|---------------------------------------|
| Hydrochloric acid | 7647-01-0  | Not applicable                        |
| Acetic acid       | 64-19-7    | TWA: 10 ppm TWA: 25 mg/m <sup>3</sup> |

# Derived No Effect Level (DNEL) Worker

No information available.

| Substances        | Long-term     | Acute / short | Long-term            | Acute / short                | Long-term     | Acute / short | Long-term                | Acute / short | Hazards for                 |
|-------------------|---------------|---------------|----------------------|------------------------------|---------------|---------------|--------------------------|---------------|-----------------------------|
|                   | effects,      | exposure -    |                      | exposure -<br>local effects, | effects,      | exposure -    | local effects,<br>Dermal |               | the eyes -<br>local effects |
|                   |               | Inhalation    |                      | Innaiation                   | Definial      | Dermal        |                          | Demia         |                             |
| Hydrochloric acid | Not available | Not available | 8 mg/m³              | 15 mg/m <sup>3</sup>         | Not available | Not available | Not available            | Not available | Not available               |
| Acetic acid       | Not available | Not available | 25 mg/m <sup>3</sup> | 25 mg/m <sup>3</sup>         | Not available | Not available | Not available            | Not available | Not available               |

**General Population** 

| Substances  | Long-term  | Acute /    | Long-term            | Acute /              | Long-term  | Acute /    | Long-term  | Acute /    | Long-term  | Acute /    | Hazards   |
|-------------|------------|------------|----------------------|----------------------|------------|------------|------------|------------|------------|------------|-----------|
|             | exposure - | short term | exposure -           | short term           | exposure - | short term | exposure - | short term | exposure - | short term | for the   |
|             | systemic   | exposure - | local                | exposure -           | systemic   | exposure - | local      | exposure - | systemic   | exposure - | eyes -    |
|             | effects,   | systemic   | effects,             | local                | effects,   | systemic   | effects,   | local      | effects,   | local      | local     |
|             | Inhalation | effects,   | Inhalation           | effects,             | Dermal     | effects,   | Dermal     | effects,   | Oral       | effects,   | effects   |
|             |            | Inhalation |                      | Inhalation           |            | Dermal     |            | Dermal     |            | Oral       |           |
| Acetic acid | Not        | Not        | 25 mg/m <sup>3</sup> | 25 mg/m <sup>3</sup> | Not        | Not        | Not        | Not        | Not        | Not        | Not       |
|             | available  | available  |                      |                      | available  | available  | available  | available  | available  | available  | available |

Predicted No Effect Concentration (PNEC)

No information available.

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|--|------------|--------------|--------------|-----------|---------------|---------------|---------------|---------------|---------------|
| Substances   | Freshwater | Marine water | Intermittent | Sewage    | Sediment      | Sediment      | Air           | Soil          | Secondary     |
|  |            |              | release      | treatment | (freshwater)  | (marine       |               |               | poisoning     |
|  |            |              |              | plant     |               | water)        |               |               |               |
| Hydrochloric acid  | 36 ug/L    | 36 ug/L      | 45 ug/L      | 36 ug/L   | Not available |
| Acetic acid  | 3.06 mg/l  | 0.306 mg/l   | 30.58 mg/l   | 85 mg/l   | 11.4 mg/kg    | 1.14 mg/kg    | Not available | 0.478 mg/kg   | Not available |

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8.2. Exposure controls

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without

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good cross ventilation.

Personal protective equipment

**Respiratory Protection** Acid gas respirator.

Hand Protection Impervious rubber gloves.

**Skin Protection** Rubber boots. Full protective chemical resistant clothing.

**Eye Protection**Chemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions**Eyewash fountains and safety showers must be easily accessible.

Environmental Exposure Controls No information available

# **SECTION 9: Physical and Chemical Properties**

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Clear colorless

Odor: Pungent acrid Odor Threshold: No information available

Property Values
Remarks/ - Method

**pH**: 0.8

No data available Freezing Point/Range Melting Point/Range No data available **Boiling Point/Range** No data available **Flash Point** No data available **Evaporation rate** No data available No data available **Vapor Pressure Vapor Density** No data available **Specific Gravity** No data available **Water Solubility** Soluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water **Autoignition Temperature** No data available **Decomposition Temperature** No data available

ViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

VOC Content (%) No data available

# **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity

Not applicable

#### 10.2. Chemical Stability

Stable

# 10.3. Possibility of Hazardous Reactions

Will Not Occur

# 10.4. Conditions to Avoid

None anticipated

#### 10.5. Incompatible Materials

Strong alkalis.

#### 10.6. Hazardous Decomposition Products

Flammable hydrogen gas. Chlorine.

# **SECTION 11: Toxicological Information**

# 11.1. Information on Toxicological Effects

**Acute Toxicity** 

**Inhalation** Causes severe respiratory irritation.

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Eye ContactCauses severe eye irritation May cause eye burns.Skin ContactCauses severe skin irritation. May cause skin burns.IngestionCauses burns of the mouth, throat and stomach.

**Chronic Effects/Carcinogenicity** Prolonged, excessive exposure may cause erosion of the teeth.

# Toxicology data for the components

| Substances        | CAS<br>Number | LD50 Oral  | LD50 Dermal  | LC50 Inhalation  |
|-------------------|---------------|--|--|--|
| Hydrochloric acid | 7647-01-0     | No data available  | 5010 mg/kg(Rabbit)<br>>5010 mg/kg (Rabbit)<br>1449 mg/kg (Mouse) | 3124 ppm (Rat) 1 h<br>3.2 mg/L (Mouse)<br>8.3 mg/L (aerosol, Rat)<br>1405 ppm (Rat)<br>554 ppm (Mouse) |
| Acetic acid       | 64-19-7       | 3310 mg/kg (Rat)<br>600 mg/kg (Rabbit)<br>4960 mg/kg (Mouse) | 1060 mg/kg (Rabbit)  | 11.4 mg/L (Rat)4 h   |

| Ganotanioo        | CAS<br>Number | Skin corrosion/irritation |
|-------------------|---------------|---------------------------|
| Hydrochloric acid | 7647-01-0     | Causes severe burns       |
| Acetic acid       | 64-19-7       | Corrosive to skin         |

|                   | CAS<br>Number | Eye damage/irritation |
|-------------------|---------------|-----------------------|
| Hydrochloric acid | 7647-01-0     | Causes severe burns   |
| Acetic acid       | 64-19-7       | Corrosive to eyes     |

|                   | CAS<br>Number | Skin Sensitization   |
|-------------------|---------------|--|
| Hydrochloric acid | 7647-01-0     | Did not cause sensitization on laboratory animals (guinea pig) |
| Acetic acid       | 64-19-7       | No information available                                       |

|                   | CAS<br>Number | Respiratory Sensitization |  |
|-------------------|---------------|---------------------------|--|
| Hydrochloric acid | 7647-01-0     | No information available  |  |
| Acetic acid       | 64-19-7       | No information available  |  |

| Substances        | CAS<br>Number | Mutagenic Effects   |
|-------------------|---------------|---|
| Hydrochloric acid | 7647-01-0     | Not regarded as mutagenic.  |
| Acetic acid       | 64-19-7       | In vivo tests did not show mutagenic effects. In vitro tests did not show mutagenic effects |

|                   | CAS<br>Number | Carcinogenic Effects                                    |  |
|-------------------|---------------|---|--|
| Hydrochloric acid | 7647-01-0     | Did not show carcinogenic effects in animal experiments |  |
| Acetic acid       | 64-19-7       | Did not show carcinogenic effects in animal experiments |  |

|                   | CAS<br>Number | Reproductive toxicity   |
|-------------------|---------------|---|
| Hydrochloric acid |               | Embryo and fetotoxicity has been observed in female rats exposed to maternally toxic levels of hydrogen chloride (450 mg/m³, 1hr.). |
| Acetic acid       | 64-19-7       | Did not show teratogenic effects in animal experiments.   |

|                   | CAS<br>Number | STOT - single exposure  |  |
|-------------------|---------------|---|--|
| Hydrochloric acid | 7647-01-0     | Causes severe respiratory irritation.   |  |
| Acetic acid       | 64-19-7       | No significant toxicity observed in animal studies at concentration requiring classification. |  |

| Substances        | CAS       | STOT - repeated exposure  |  |
|-------------------|-----------|---|--|
|                   | Number    |   |  |
| Hydrochloric acid | 7647-01-0 | No significant toxicity observed in animal studies at concentration requiring classification.   |  |
| Acetic acid       | 64-19-7   | No significant toxicity observed in animal studies at concentration requiring classification. Not applicable due to corrosivity of the substance. |  |

|                   | CAS<br>Number | Aspiration hazard |
|-------------------|---------------|-------------------|
| Hydrochloric acid | 7647-01-0     | Not applicable    |
| Acetic acid       | 64-19-7       | Not applicable    |

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# **SECTION 12: Ecological Information**

# 12.1. Toxicity Ecotoxicity Effects

| Substances        | CAS<br>Number | Toxicity to Algae  | Toxicity to Fish   | Toxicity to<br>Microorganisms                                     | Toxicity to<br>Invertebrates   |
|-------------------|---------------|--|--|---|--|
| Hydrochloric acid | 7647-01-0     | EC50: 4.7 (pH)<br>(Chlorella vulgaris) 72 h  | LC50: 282 mg/L<br>(Gambusia affinis)<br>LC50: 20.5 mg/L<br>(Lepomis macrochirus)<br>LC50: 3.25 – 3.5 (pH)<br>(Lepomis macrochirus)<br>96 h | EC50(3h): >= 5 and <=<br>5.5 (pH) (Activated<br>sludge, domestic) | EC50: 4.9 (pH) (Daphnia<br>magna) 48 h   |
| Acetic acid       | 64-19-7       | EC50: 90 mg/L<br>(Microcystis aeruginosa)<br>EC50(72h): > 1000 mg/L<br>(>300.82 mg/L – acetate<br>ion) (Skeletonema<br>costatum) | LC50: 75 mg/l  | NOEC(16h): 1150 mg/L<br>(Pseudomonas putida)                      | EC50: 47 mg/l (Daphnia magna) LC50: 32 mg/L (Artemia salina) EC50(48h) > 1000 mg/L (>300.82 mg/L – acetate ion) (Daphnia magna) NOEC(21d): 31.4 - 37.9 mg/L (Daphnia magna) (reproduction) |

# 12.2. Persistence and degradability

| Substances        | CAS Number | Persistence and Degradability                    |
|-------------------|------------|--|
| Hydrochloric acid | 7647-01-0  | The methods for determining biodegradability are |
|                   |            | not applicable to inorganic substances.          |
| Acetic acid       | 64-19-7    | Readily biodegradable (>95%% @ 28d)              |

# 12.3. Bioaccumulative potential

| Substances        | CAS Number | Log Pow                        |
|-------------------|------------|--------------------------------|
| Hydrochloric acid | 7647-01-0  | 0.25                           |
| Acetic acid       | 64-19-7    | -0.17<br>BCF 3.16 (Calculated) |

# 12.4. Mobility in soil

No information available

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# **SECTION 13: Disposal Considerations**

# 13.1. Waste treatment methods

Disposal Method
Contaminated Packaging

Disposal should be made in accordance with federal, state, and local regulations. Follow all applicable national or local regulations.

# **SECTION 14: Transport Information**

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IMDG/IMO

UN Number: UN3264

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Acetic Acid)

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Transport Hazard Class(es): 8
Packing Group: 8

**Environmental Hazards:** Not applicable **EMS**: EmS F-A, S-B

**RID** 

UN Number: UN3264

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Acetic Acid)

Transport Hazard Class(es): 8
Packing Group: |

Environmental hazard: Not applicable

**ADR** 

UN Number: UN3264

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Acetic Acid)

Transport Hazard Class(es): 8
Packing Group: ||

Environmental hazard: Not applicable

IATA/ICAO

UN Number: UN3264

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Acetic Acid)

Transport Hazard Class(es): 8
Packing Group: ||

**Environmental hazard:** Not applicable

**14.1. UN Number:** UN3264

14.2. UN Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Acetic Acid)

14.3. Transport Hazard Class(es): 8

14.4. Packing Group:

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

# SECTION 15: Regulatory Information

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

**International Inventories** 

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory
Canadian DSL Inventory
All components listed on inventory or are exempt.
All components listed on inventory or are exempt.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 1: Low hazard to waters.

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# 15.2. Chemical Safety Assessment

No information available

# **SECTION 16: Other Information**

# Full text of R-phrases referred to under Sections 2 and 3

R10 Flammable.

R34 Causes burns.

R35 Causes severe burns.

R37 Irritating to respiratory system.

#### Key literature references and sources for data

www.ChemADVISOR.com/

**Revision Date: Revision Note** Not applicable

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This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

#### **Disclaimer Statement**

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**End of Safety Data Sheet**