

AL KOUT INDUSTRIAL PROJECTS

Safety Data Sheet FERRIC CHLORIDE 40 WT%

| Document No: | C-SM-XX-D-012 |
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| SECTION 1: Identific | ation | |
|--|-----------------------|---|
| 1.1. Identification | | |
| | | |
| | | |
| Product form | | : Mixtures |
| Product name | | : Ferric Chloride, $40\% \pm 0.5 \text{ w/w}$ |
| | | Iron(III) chloride solution |
| 1.2. Recommended | use and restrictions | on use |
| Use of the substance/mixtu | re | : For laboratory and industrial use only |
| Recommended use | | : Water treatment, Manufacture of substances |
| Restrictions on use | | : Not for food, drug or household use |
| | action | |
| 1.3. Company Inform Name: Al Kout Industrial Pr | | |
| Plant: Salt & Chlorine Plan | | |
| Company's Post Box No.: | | 153, Kuwait |
| Tel No.: 00-(965)-2228372 | | 25 |
| Fax No.: 00-(965)- 222840- | | 23261029, 97216020, 99794511 |
| www.alkoutprojects.com | 1011e 110. 00-(903)-, | 23201023, 31210020, 33134311 |
| 1.4. Emergency telep | ahone number | |
| Emergency number | | : 00-(965)-, 23261029, 97216020 |
| Littergency number | | . 00-(903)-, 23201029, 97210020 |
| | | |
| SECTION 2: Hazard(| s) identification | |
| | f the substance or m | |
| GHS-US classification | | |
| Skin corrosion/irritation | H314 | Causas sovers akin huma and ave demore |
| Category 1B | H314 | Causes severe skin burns and eye damage |
| Serious eye damage/eye | H318 | Causes serious eye damage |
| irritation Category 1 | | |
| Hazardous to the aquatic | H401 | Toxic to aquatic life |
| environment - Acute Hazard Category 2 | | |
| Full text of H statements : s | ee section 16 | |
| i uli text of it statements . s | | |
| 2.2. GHS Label elem | ents, including pred | cautionary statements |
| GHS-US labeling | | |
| Hazard pictograms (GHS-U | IS) | |
| | -) | |
| | | |
| | | |
| | | \mathbf{V} |
| | | GHS05 |
| Signal word (GHS-US) | | : Danger |
| Hazard statements (GHS-U | S) | : H314 - Causes severe skin burns and eye damage H401 - Toxic to aquatic life |
| Propoutionany statemaste // | | |
| Precautionary statements (| GHS-US) | : P260 - Do not breathe mist, vapors, spray P264 - Wash exposed skin thoroughly after handling |
| | | P273 - Avoid release to the environment |
| | | P280 - Wear protective gloves, eye protection |
| | | P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting |
| | | P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| | | P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact |
| | | lenses, if present and easy to do. Continue rinsing |
| | | P310 - Immediately call a poison center or doctor/physician |
| | | P363 - Wash contaminated clothing before reuse |
| | | P405 - Store locked up |

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| | P501 - Dispose of contents/container If inhaled: Remove person to fresh air | | | egulations |
| 2.3. Other hazards which do | not result in classification | | | |
| Other hazards not contributing to the | e : None. | | | |
| | | | | <u> </u> |
| | | | | |
| classification | | | | |
| 2.4. Unknown acute toxicity | (GHS US) | | | |
| Not applicable | | | | |
| SECTION 3: Composition/I | nformation on ingredients | | | |
| 3.1. Substances | | | | |
| Not applicable | | | | |
| 3.2. Mixtures | | | | |
| Name | Product identifier | % | GHS-US classification | on |
| Water | (CAS-No.) 7732-18-5 | 54.1 | Not classified | |
| Ferric Chloride, Hexahydrate | (CAS-No.) 10025-77-1 | 40 | Acute Tox. 4 (Oral), H30 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 2, H401 | 2 |
| Hydrochloric Acid, 32% w/w | (CAS-No.) 7647-01-0 | <0.5 | Acute Tox. 4 (Oral), H30 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 | 2 |

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures | |
|---------------------------------------|---|
| 4.1. Description of first aid measur | es |
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. |
| 4.2. Most important symptoms and | effects (acute and delayed) |
| Symptoms/effects | : Causes severe skin burns and eye damage. |
| Symptoms/effects after eye contact | : Causes serious eye damage. |
| 4.3. Immediate medical attention a | nd special treatment, if necessary |
| No additional information available | |
| SECTION 5: Fire-fighting measu | res |
| 5.1. Suitable (and unsuitable) extin | guishing media |
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| 5.2. Specific hazards arising from t | the chemical |
| Reactivity | : Thermal decomposition generates : Corrosive vapors. |
| 5.3. Special protective equipment a | and precautions for fire-fighters |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| SECTION 6: Accidental release | measures |
| | ve equipment and emergency procedures |
| | |

6.1.1. For non-emergency personnel

| | | - | 1 | |
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| Protective equipment | : Safety glasses. Gloves. Protective clothing. | | | |
| Emergency procedures | : Evacuate unnecessary personnel. | | | |
| 6.1.2. For emergency resp | oonders | | | |
| Protective equipment | : Equip cleanup crew with proper protection. | | | |
| Emergency procedures | : Ventilate area. | | | |
| 6.2. Environmental prec | autions | | | |
| | blic waters. Notify authorities if liquid enters sewers or public waters. Avoid rel | lease to the environm | ent. | |
| , | ial for containment and cleaning up | | | |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomace | ous earth as soon as | possible. Collect | |
| Methods for cleaning up | spillage. Store away from other materials. | ous eann as soon as | possible. Collect | |
| 6.4. Reference to other s | sections | | | |
| See Heading 8. Exposure contr | rols and personal protection. | | | |
| SECTION 7: Handling a | nd storage | | | |
| 7.1. Precautions for safe | e handling | | | |
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and smoking and when leaving work. Provide good ventilatio of vapor. Do not breathe mist, vapors, spray. | | | |
| Hygiene measures | : Wash exposed skin thoroughly after handling. Wash cont | aminated clothing befo | ore reuse. | |
| 7.2. Conditions for safe | storage, including any incompatibilities | | | |
| Technical measures | : Comply with applicable regulations. | | | |
| Storage conditions | : Keep only in the original container in a cool, well ventilate materials. Keep container closed when not in use. | d place away from : ir | ncompatible | |
| Incompatible products | : Strong bases. metals. | | | |
| Incompatible materials | Incompatible materials : Sources of ignition. Direct sunlight. | | | |
| SECTION & Exposure | controls/personal protection | | | |
| • | | | | |
| 8.1. Control parameters | | | | |

| Ferric Chloride, Hexahydrate (10025-77-1) | | | | | |
|---|--|------------------------|--|--|--|
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1 mg/m³ | | | |
| Water (7732-18-5) | Water (7732-18-5) | | | | |
| Not applicable | | | | | |
| Hydrochloric Acid, 32% w/w | (7647-01-0) | | | | |
| ACGIH | ACGIH Ceiling (mg/m ³) | 2.98 mg/m ³ | | | |
| ACGIH | ACGIH Ceiling (ppm) | 2 ppm | | | |
| OSHA | OSHA PEL (Ceiling) (mg/m ³) | 7 mg/m ³ | | | |
| OSHA | OSHA PEL (Ceiling) (ppm) | 5 ppm | | | |
| IDLH | US IDLH (ppm) | 50 ppm | | | |
| NIOSH | NIOSH REL (ceiling) (mg/m ³) | 7 mg/m ³ | | | |
| NIOSH | NIOSH REL (ceiling) (ppm) | 5 ppm | | | |

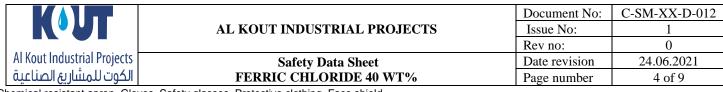
8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:



Chemical resistant apron. Gloves. Safety glasses. Protective clothing. Face shield.



Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | Liquid |
|---|---------------------|
| Color | Amber |
| Odor | Slightly HCI |
| Odor threshold | No data available |
| рН | <1 |
| Melting point | 307 Degree C: |
| Freezing point | No data available : |
| Boiling point | 316 Degree C |
| Flash point | No data available : |
| Relative evaporation rate (butyl acetate=1) | No data available : |
| Flammability (solid, gas) | Not flammable |
| Vapor pressure | No data available : |
| Relative vapor density at 20 $^{\circ}$ C | No data available : |
| Relative density | No data available : |
| Specific gravity / density | 1.4 +/-0.02g/ml |
| Solubility | Soluble in water. |
| Log Pow | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available : |
| Viscosity, kinematic | No data available. |
| Viscosity, dynamic | No data available |
| Explosion limits | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

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| 10.2. Chemical stability | | | |
| Stable under normal conditions. | | | |

10.3. Possibility of hazardous reactions Not established. 10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatures. 10.5. Incompatible materials metals. Strong bases. 10.6. Hazardous decomposition products

Hydrogen chloride. iron oxide. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Likely routes of exposure : Skin and eye contact Acute toxicity : Not classified Ferric Chloride. Hexabudrate (10025-77-1)

| Ferric Chloride, Hexahydrate (10025-77-1) | | |
|---|--|--|
| LD50 oral rat | 1872 mg/kg (Rat) | |
| ATE US (oral) | 1872 mg/kg body weight | |
| Water (7732-18-5) | | |
| LD50 oral rat | ≥ 90000 mg/kg | |
| ATE US (oral) | 90000 mg/kg body weight | |
| Hydrochloric Acid, 32% w/w (7647-01-0) | | |
| LD50 oral rat | 700 mg/kg | |
| LD50 dermal rabbit | 5010 mg/kg | |
| ATE US (oral) | 700 mg/kg body weight | |
| ATE US (dermal) | 5010 mg/kg body weight | |
| Skin corrosion/irritation | : Causes severe skin burns and eye damage. | |
| Serious eye damage/irritation | : Causes serious eye damage. | |
| Respiratory or skin sensitization | : Notclassified | |
| Germ cell mutagenicity | : Notclassified | |
| Carcinogenicity | : Not classified | |

| Hydrochloric Acid, 32% w/w (7647-01-0) | | |
|---|---|--|
| IARC group | 3 - Not classifiable | |
| Reproductive toxicity | : Not classified | |
| Specific target organ toxicity - single exposure | : Not classified | |
| Specific target organ toxicity – repeated exposure | : Not classified | |
| Aspiration hazard | : Not classified | |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. | |
| Symptoms/effects after eye contact | : Causes serious eye damage. | |
| SECTION 12: Ecological information | | |

| SECTION 12: Ecological Information | | |
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| EC50 Daphnia 1 | 9.6 mg/l (EC50; 48 h; Daphnia magna) | i ugo numoor | 0.012 | |
| LC50 fish 2 | 75.6 mg/l (LC50; 96 h; Gambusia affinis) | | | |
| Hudrochlaria Asid 220/ why (7 | | | | |
| Hydrochloric Acid, 32% w/w (7 LC50 fish 1 | | | | |
| EC50 Daphnia 1 | 282 mg/l (LC50; 96 h) < 56 mg/l (EC50; 72 h) | | | |
| | | | | |
| 2.2. Persistence and degra | dability | | | |
| Ferric Chloride, 40% w/v | | | | |
| Persistence and degradability | Not established. | | | |
| Ferric Chloride, Hexahydrate (| 10025-77-1) | | | |
| Persistence and degradability | Biodegradability: not applicable. Biodegradability in mobility of the substance available. | n soil: not applicable. No tes | at data on | |
| Biochemical oxygen demand (Bo | OD) Not applicable | | | |
| Chemical oxygen demand (COD |) Not applicable | | | |
| ThOD | Not applicable | | | |
| Water (7732-18-5) | | | | |
| Persistence and degradability | Not established. | | | |
| Hydrochloric Acid, 32% w/w (7 | | | | |
| Persistence and degradability | Biodegradability: not applicable. No test data on m | obility of the components a | vailable | |
| Biochemical oxygen demand (B | וחר | | | |
| | | | | |
| Chemical oxygen demand (COD |) Not applicable | Not applicable | | |
| ThOD | Not applicable | | | |
| 2.3. Bioaccumulative poter | itial | | | |
| Ferric Chloride, 40% w/v | | | | |
| Bioaccumulative potential | Not established. | | | |
| Ferric Chloride, Hexahydrate (| 10025-77-1) | | | |
| BCF fish 1 | <= 100 (BCF) | | | |
| Bioaccumulative potential | No bioaccumulation data available. | | | |
| Water (7732-18-5) | | | | |
| Bioaccumulative potential | Not established. | | | |
| Hydrochloric Acid, 32% w/w (7 | /647-01-0) | | | |
| Log Pow | 0.25 (QSAR) | | | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | | | |
| 2.4. Mobility in soil | | | | |
| Hydrochloric Acid, 32% w/w (7 | /647-01-0) | | | |
| Ecology - soil | May be harmful to plant growth, blooming and fruit | formation. | | |
| 2.5. Other adverse effects | | | | |
| ffect on the global warming | : No known effects from this product. | | | |
| WPmix comment | : No known effects from this product. | | | |
| ther information | : Avoid release to the environment. | | | |
| ECTION 13: Disposal co | nsiderations | | | |
| 8.1. Disposal methods | | | | |
| aste disposal recommendations | : Dispose in a safe manner in accordance with local/ | national regulations. Dispos | e of | |
| asic disposal recommendations | contents/container to comply with local, state and | | | |
| | | | | |

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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| | | TERRIC CHLORIDE 40 W 1 /6 | rage number | 7 01 9 | | |
| Transport document description | : | UN3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, II | | | | |
| UN-No.(DOT) | : | UN3264 | | | | |
| Proper Shipping Name (DOT) | : | Corrosive liquid, acidic, inorganic, n.o.s. | | | | |
| Transport hazard class(es) (DOT) | : | 8 - Class 8 - Corrosive material 49 CFR 173.136 | | | | |
| Packing group (DOT) | : | II - Medium Danger | | | | |
| Hazard labels (DOT) | : | 8 - Corrosive | | | | |
| DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102) | : | 202 242 C - Identifies PSN requiring a technical name B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal | | | | |
| DOT Packaging Exceptions (49 CFR 173.xx | ·v) · | MAWP. 154 | | | | |
| DOT Quantity Limitations Passenger aircraf (49 CFR 173.27) | , | 1 L | | | | |
| DOT Quantity Limitations Cargo aircraft only CFR 175.75) | / (49 : | 30 L | | | | |
| DOT Vessel Stowage Location | : | B - (i) The material may be stowed "on deck" or "under d passenger vessel carrying a number of passengers limite passengers, or one passenger per each 3 m of overall ve passenger vessels in which the number of passengers sp section is exceeded. | d to not more than th ssel length; and (ii) '' | e larger of 25 On deck only" on | | |



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DOT Vessel Stowage Other Other information : 40 - Stow "clear of living quarters"

: No supplementary information available.

| SECTION 15: Regulatory information | | | | | | |
|---|-----------------|---------------------------------|------|--|--|--|
| 15.1. US Federal regulations | | | | | | |
| Ferric Chloride, 40% w/v | | | | | | |
| SARA Section 311/312 Hazard Classes | | Immediate (acute) health hazard | | | | |
| All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for: | | | | | | |
| Ferric Chloride, Hexahydrate | | CAS-No. 10025-77-1 | 40% | | | |
| Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. | | | | | | |
| Hydrochloric Acid, 32% w/w | | CAS-No. 7647-01-0 | 5.9% | | | |
| Ferric Chloride, Hexahydrate (10025-77-1) | | | | | | |
| SARA Section 311/312 Hazard Classes | Immediate (acut | te) health hazard | | | | |

| Hydrochloric Acid, 32% w/w (7647-01-0) | | |
|--|--|--|
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 lb | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | |

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| SE | CTION 16: Other information | |
|------|------------------------------------|---|
| Rev | sion date | : 23/06/2021 |
| Othe | er information | : None. |
| Full | text of H-phrases: see section 16: | |
| | H302 | Harmful if swallowed |
| | H314 | Causes severe skin burns and eye damage |
| | H318 | Causes serious eye damage |
| | H335 | May cause respiratory irritation |
| | H401 | Toxic to aquatic life |

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| H402 | Harmful to aquatic life | | |
| | | | |
| NFPA health hazard | : 3 - Materials that, under emergency conditions, can cause serious or permanent injury. | | |
| NFPA fire hazard | : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. | | • |
| NFPA reactivity | : 0 - Material that in themselves are normally stable, even under fire conditions. | | |
| Hazard Rating | | | |
| Health | : 3 Serious Hazard - Major injury likely unless prompt action given | is taken and medica | I treatment is |
| Flammability | : 0 Minimal Hazard - Materials that will not burn | | |
| Physical | : 0 Minimal Hazard - Materials that are normally stable, even react with water, polymerize, decompose, condense, or s | | |
| Personal protection | : H | | |
| | H - Splash goggles, Gloves, Synthetic apron, Vapor respi | rator | |