

# SAFETY DATA SHEET

### 1. Identification

| Product identifier                                     | AFRC                 |  |  |
|--|----------------------|--|--|
| Other means of identification                          |                      |  |  |
| SDS number   | 584N-143B            |  |  |
| Product code   | HIL01009             |  |  |
| Product registration<br>number                         | 47371-97-1658        |  |  |
| Recommended use  | Disinfectant/Cleaner |  |  |
| <b>Recommended restrictions</b>                        | For Labeled Use Only |  |  |
| Manufacturer/Importer/Supplier/Distributor information |                      |  |  |
| Manufacturer   |                      |  |  |
| Company name   | HILLYARD INDUSTRIES  |  |  |
| Address  | 302 North Fourth St. |  |  |
|  | St. Joseph, MO 64501 |  |  |

| Contact person        | Regulatory Affairs  |
|-----------------------|---|
| Telephone number      | (816) 233-1321 (Ext. 8285)  |
| Fax                   | (816) 383-8485  |
| E-mail                | regulatoryaffairs@hillyard.com  |
| Emergency telephone # | (800) 424-9300  |
|                       | (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals) |

### 2. Hazard(s) identification

| Physical hazards        | Not classified.  |            |
|-------------------------|--|------------|
| Health hazards          | Not classified.  |            |
| Environmental hazards   | Hazardous to the aquatic environment, acute hazard   | Category 3 |
|                         | Hazardous to the aquatic environment, long-term hazard   | Category 3 |
| OSHA defined hazards    | Not classified.  |            |
| Label elements          |  |            |
| Hazard symbol           | None.  |            |
| Signal word             | Caution  |            |
| Hazard statement        | Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.   |            |
| Precautionary statement |  |            |
| Prevention              | Avoid release to the environment.  |            |
| Response                | Wash hands after handling. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. |            |
| Storage                 | Store in accordance with local/regional/national regulations.  |            |
| Disposal                | Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state and local requirements.                                     |            |

### 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name  | Common name and synonyms | CAS number | %       |
|--|--------------------------|------------|---------|
| Alkyl dimethyl benzyl ammonium<br>chloride (C12-18)      |                          | 68391-01-5 | 0.09    |
| Alkyl dimethyl ethylbenzyl<br>ammonium chloride (C12-18) |                          | 68956-79-6 | 0.09    |
| Other components below reportabl                         | e levels                 |            | 99.8251 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret

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|--|---|
| 4. First-aid measures  |   |
| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.   |
| Skin contact   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.  |
| Eye contact  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion  | Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately.  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Direct contact with eyes may cause temporary irritation.  |
| Indication of immediate<br>medical attention and special<br>treatment needed | Provide general supportive measures and treat symptomatically.  |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |
| 5. Fire-fighting measures  |   |
| Suitable extinguishing media   | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).   |
| Unsuitable extinguishing<br>media  | Do not use water jet as an extinguisher, as this will spread the fire.  |
| Specific hazards arising from the chemical                                   | During fire, gases hazardous to health may be formed.   |
| Special protective equipment and precautions for firefighters                | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |
| Fire fighting<br>equipment/instructions                                      | Move containers from fire area if you can do so without risk.   |
| Specific methods   | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| General fire hazards   | No unusual fire or explosion hazards noted.   |
| 6. Accidental release meas   | sures   |
| Personal precautions   | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear   |

| protective equipment and<br>emergency procedures         | appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.            |
|--|---|
| Methods and materials for<br>containment and cleaning up | This product is miscible in water. Prevent product from entering drains.  |
|  | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. |
|  | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  |
|  |   |

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

| Precautions for safe handling   | Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. |
|---------------------------------|--|
| Conditions for safe storage,    | Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Do not contaminate water, food or feed by storage or disposal.  |
| including any incompatibilities | PESTICIDE STORAGE: Open dumping is prohibited. Store in original container in areas inaccessible to children.  |

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Biological limit values           | No biological exposure limits noted for the ingredient(s).  |  |
|-----------------------------------|---|--|
| Appropriate engineering controls  | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |  |
| Individual protection measures,   | such as personal protective equipment   |  |
| Eye/face protection               | If contact is likely, safety glasses with side shields are recommended.   |  |
| Skin protection                   |   |  |
| Hand protection                   | For prolonged or repeated skin contact use suitable protective gloves.  |  |
| Other                             | None normally required. If unable to avoid prolonged or repeated contact with skin, wear<br>impervious clothing.  |  |
| <b>Respiratory protection</b>     | No personal respiratory protective equipment normally required.   |  |
| Thermal hazards                   | None known.   |  |
| General hygiene<br>considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.   |  |
|                                   |   |  |

### 9. Physical and chemical properties

| ,                                       |                                       |
|---|---------------------------------------|
| Appearance                              | Clear to slightly hazy, blue liquid   |
| Physical state                          | Liquid.                               |
| Form                                    | Liquid.                               |
| Color                                   | Blue                                  |
| Odor                                    | Floral odor                           |
| Odor threshold                          | Not available                         |
| рН                                      | 10.8 - 11.8                           |
| Melting point/freezing point            | Not available                         |
| Initial boiling point and boiling range | 209 °F (98.33 °C)                     |
| Flash point                             | > 200.0 °F (> 93.3 °C) Tag Closed Cup |
| Evaporation rate                        | < 1 Ethyl ether = 1                   |
| Flammability (solid, gas)               | Not applicable.                       |
| Upper/lower flammability or expl        | osive limits                          |
| Explosive limit - lower (%)             | Not available.                        |
| Explosive limit - upper (%)             | Not available.                        |
| Vapor pressure                          | 17.56 mm Hg                           |
| Vapor density                           | 0.6238 Air=1                          |
| Relative density                        | 1.003 at 77°F                         |
| Solubility(ies)                         |                                       |
| Solubility (water)                      | 100 % Complete                        |
|   |                                       |

Material name: AFRC

| Partition coefficient<br>(n-octanol/water) | Not available   |
|--|---|
| Auto-ignition temperature                  | Not available   |
| Decomposition temperature                  | Not available   |
| Viscosity                                  | Not available   |
| Other information                          |   |
| Density                                    | 8.35 lb/gal   |
| Explosive properties                       | Not explosive.  |
| Oxidizing properties                       | Not oxidizing.  |
| Percent volatile                           | 98.5 - 99.5 %   |
| VOC  | 0.02 %  |
| 10. Stability and reactivity               | /   |
| Reactivity                                 | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability                         | Material is stable under normal conditions.   |
| Possibility of hazardous                   | No dangerous reaction known under conditions of normal use.                                   |

reactionsConditions to avoidKeep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid<br/>temperatures exceeding the flash point. Contact with incompatible materials.Incompatible materialsStrong oxidizing agents.Hazardous decomposition<br/>productsNo hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

| Inhalation   | Prolonged inhalation may be harmful.                     |
|--|--|
| Skin contact   | No adverse effects due to skin contact are expected.     |
| Eye contact  | Direct contact with eyes may cause temporary irritation. |
| Ingestion  | Expected to be a low ingestion hazard.                   |
| Symptoms related to the<br>physical, chemical and<br>toxicological characteristics | Direct contact with eyes may cause temporary irritation. |

#### Information on toxicological effects

| Acute toxicity                    | Not available.   |                     |
|-----------------------------------|--|---------------------|
| Product                           | Species  | Test Results        |
| AFRC                              |  |                     |
| Acute                             |  |                     |
| Oral                              |  |                     |
| LD50                              | Guinea pig   | 1519 g/kg estimated |
|                                   | Mouse  | 3347 g/kg estimated |
|                                   | Rat  | 5138 g/kg estimated |
| Skin corrosion/irritation         | Prolonged skin contact may cause temporary irritation.   |                     |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation.   |                     |
| Respiratory or skin sensitizatio  | n  |                     |
| <b>Respiratory sensitization</b>  | Not a respiratory sensitizer.  |                     |
| Skin sensitization                | This product is not expected to cause skin sensitization.  |                     |
| Germ cell mutagenicity            | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |                     |
| Carcinogenicity                   | Not classifiable as to carcinogenicity to humans.  |                     |
| IARC Monographs. Overall          | Evaluation of Carcinogenicity  |                     |
| Not listed.                       |  |                     |

| Not regulated.  | d Substances (29 CFR 1910.1001-1052)<br>ogram (NTP) Report on Carcinogens    |
|---|--|
| Reproductive toxicity                                 | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure      | Not classified.  |
| Specific target organ toxicity -<br>repeated exposure | Not classified.  |
| Aspiration hazard                                     | Not an aspiration hazard.  |
| Chronic effects                                       | Prolonged inhalation may be harmful.   |

### 12. Ecological information

| Ecotoxicity | Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. |
|-------------|---|
|-------------|---|

| Product                      |   | Species                          | Test Results                      |
|------------------------------|---|----------------------------------|-----------------------------------|
| AFRC                         |   |                                  |                                   |
| Aquatic                      |   |                                  |                                   |
| Crustacea                    | EC50  | Daphnia                          | 114.0886 mg/l, 48 hours estimated |
| Fish                         | LC50  | Fish                             | 211.3927 mg/l, 96 hours estimated |
| ersistence and degradability | No data is  | s available on the degradability | y of this product.                |
| oaccumulative potential      | No data available.  |                                  |                                   |
| obility in soil              | No data available.  |                                  |                                   |
| ther adverse effects         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |                                  |                                   |

### 13. Disposal considerations

| Disposal instructions                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  |
|---------------------------------------|---|
| Local disposal regulations            | Dispose in accordance with all applicable regulations.  |
| Hazardous waste code                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |
| Waste from residues / unused products | PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. |
| Contaminated packaging                | CONTAINER DISPOSAL: Non refillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.   |
|                                       |   |

### 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

| TSCA Section 12(b) Export<br>Not regulated.             | Notification (40 CFR 707, Subpt. D)  |
|---|--|
| CERCLA Hazardous Substa                                 | ance List (40 CFR 302.4)   |
| Not listed.   |  |
| SARA 304 Emergency relea                                | ase notification   |
| Not regulated.<br>OSHA Specifically Regulate            | ed Substances (29 CFR 1910.1001-1052)  |
| Not regulated.  |  |
| Superfund Amendments and Re<br>SARA 302 Extremely hazar | eauthorization Act of 1986 (SARA)<br>dous substance  |
| Not listed.   |  |
| SARA 311/312 Hazardous chemical                         | No   |
| SARA 313 (TRI reporting)<br>Not regulated.              |  |
| Other federal regulations                               |  |
| Clean Air Act (CAA) Section                             | n 112 Hazardous Air Pollutants (HAPs) List   |
| Not regulated.  |  |
| Clean Air Act (CAA) Section                             | n 112(r) Accidental Release Prevention (40 CFR 68.130)   |
| Not regulated.  |  |
| Safe Drinking Water Act<br>(SDWA)                       | Not regulated.   |
| FIFRA Information                                       | FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 47371-97-1658, and is<br>subject to certain labeling requirements under Federal pesticide law. These requirements differ<br>from the classification criteria and hazard information required for safety data sheets (SDS), and<br>for workplace labels of non-pesticide products. The hazard information required on the pesticide<br>label is reproduced here. |
|   | PRECAUTIONARY STATEMENTS – HAZARDS TO HUMANS AND DOMESTIC ANIMALS.<br>CAUTION. Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash<br>thoroughly with soap and water after handling.   |
|   | FIRST AID: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately Wash with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Get medical attention. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.  |
| US state regulations                                    |  |
| California Proposition 65                               |  |
|   |  |

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

| Country(s) or region              | Inventory name On inventory (   | yes/no)* |
|-----------------------------------|---|----------|
| Canada                            | Domestic Substances List (DSL)  | No       |
| Canada                            | Non-Domestic Substances List (NDSL)   | Yes      |
| United States & Puerto Rico       | Toxic Substances Control Act (TSCA) Inventory   | Yes      |
| *A "Ves" indicates that all compo | nents of this product comply with the inventory requirements administered by the governing country(s) |          |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

| Issue date    | 04-09-2015   |
|---------------|--|
| Revision date | 03-29-2019   |
| Version #     | 04   |
| HMIS® ratings | Health: 1<br>Flammability: 0<br>Physical hazard: 0 |

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|----------------------|---|
| Revision information | This document has undergone significant changes and should be reviewed in its entirety.   |