

Issue Date 14-May-2015

Revision Date 27-May-2015

Version 1

1. IDENTIFICATION

Product identifier

Product Name Aggresol-F

Other means of identification

Product Code FG00043

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use Exposed Aggregate Concrete Retarder.

Uses advised against No Data

Details of the supplier of the safety data sheet

Manufacturer Address

Surface Koatings, Inc. 134 Davis Street Portland, TN 37148 Telephone (615) 323-9461

Emergency telephone number

Company Phone Number (615) 323-9461

24 Hour Emergency Phone Number 800-535-5053 (United States & Canada), International Call: 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

Warning

Hazard statements

May be harmful if swallowed

May cause an allergic skin reaction

Causes eye irritation



Appearance Green

Physical state liquid

Odor Mild

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash hands and face thoroughly after handling
 Use only outdoors or in a well-ventilated area
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice or attention.
 Take off contaminated clothing and wash before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.
 Keep from freezing.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified (HNOC)

May cause skin irritation.

Other Information**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|-----------------------------|-----------|----------|--------------|
| Non-hazardous ingredient(s) | - | 95-99 | * |
| Potassium hydroxide | 1310-58-3 | 1 - 5 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

| | |
|-----------------------|--|
| General advice | Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance. |
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Skin contact | IF ON SKIN: Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice or attention. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| Ingestion | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. |

Most important symptoms and effects, both acute and delayed

Symptoms Eye, Skin, and Respiratory Irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. For additional information, see Safety Data Sheet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Product is not combustible. Use water spray (fog), alcohol-resistant foam, dry chemical, or carbon dioxide surrounding fire.

Unsuitable extinguishing media Not Applicable.

Specific hazards arising from the chemical

None Known.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact Not available.

Sensitivity to Static Discharge Not sensitive.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions In case of spill wear appropriate personal protective equipment during any cleanup and response activities. Avoid skin contact and inhalation.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.

Methods and material for containment and cleaning up

Methods for containment Dike and contain spill with inert absorbent materials. Soak up with inert material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep at a temperature not exceeding 38 Degrees C (100 Degrees F). Do not allow material to freeze. Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Potassium Hydroxide (1310-58-3): OSHA Permissible Exposure Limit (PEL): 2 mg/m³
 Ceiling - ACGIH Threshold Limit value (TLV): 2 mg/m³ Ceiling.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|------------------------------|--|------------------------------|
| Potassium hydroxide 1310-58-3 | Ceiling: 2 mg/m ³ | (vacated) Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |

Appropriate engineering controls

Engineering Controls General/Local Ventilation Recommended.

Individual protection measures, such as personal protective equipment

- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.
- Respiratory protection** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------|-----------------------|-------------------|
| Physical state | liquid | Odor | Mild |
| Appearance | Green | Odor threshold | No data available |
| Color | white | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|-----------------------|-------------------------|
| pH | 11-12 | |
| Melting point / freezing point | Not Applicable/ 32° F | |
| Boiling point / boiling range | 100 °C | |
| Flash point | Not Relevant | CC (closed cup) |
| Evaporation rate | Not Available | |
| Flammability (solid, gas) | Not Relevant | |
| Flammability Limit in Air | | |
| Upper flammability limit: | Not Available | |
| Lower flammability limit: | Not Available | |
| Vapor pressure | Not Available | |
| Vapor density | Not Available | |
| Relative density | 1.15 @ 70 Degrees F | |
| Water solubility | Soluble in water | |
| Solubility in other solvents | Not Available | |
| Partition coefficient | Not Available | |
| Autoignition temperature | Not Available | |
| Decomposition temperature | Not Available | |
| Kinematic viscosity | Not Available | |
| Dynamic viscosity | Not Available | |
| Explosive properties | Not Available | |

Oxidizing properties Not Available

Other Information

Softening point Not Relevant
Molecular weight Not Available
VOC Content (%) 0 g/L
Density Not Available
Bulk density Not Available

10. STABILITY AND REACTIVITY

Reactivity
 Not Available

Chemical stability

Stable.

Possibility of Hazardous Reactions

No data available.

Conditions to avoid

None known.

Incompatible materials

None known.

Hazardous Decomposition Products

None Known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Direct contact and vapor inhalation.
Eye contact Direct contact.
Skin contact Direct contact.
Ingestion Direct contact.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------------|---------------------|-------------|-----------------|
| Potassium hydroxide 1310-58-3 | = 214 mg/kg (Rat) | - | - |

Information on toxicological effects

Symptoms May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Irritating to eyes.
Irritation Irritating to eyes, respiratory system and skin.
Sensitization No data available.
Germ cell mutagenicity No data available.
Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity Not Available.
STOT - single exposure Not Available.

STOT - repeated exposure Not Available.
Aspiration hazard Not Available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

No available data.

Ecotoxicity

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|----------------------------------|----------------------|---|-----------|
| Potassium hydroxide 1310-58-3 | - | 80: 96 h Gambusia affinis mg/L LC50 static | - |

Persistence and degradability

No data available.

Bioaccumulation

No data available.

| Chemical Name | Partition coefficient |
|----------------------------------|-----------------------|
| Potassium hydroxide 1310-58-3 | 0.65 0.83 |

Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

| Chemical Name | California Hazardous Waste Status |
|----------------------------------|-----------------------------------|
| Potassium hydroxide 1310-58-3 | Toxic Corrosive |

14. TRANSPORT INFORMATION

DOT Not regulated
Marine pollutant No available data.

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|----------------------|-----------------|
| TSCA | Does not comply |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS | Does not comply |
| IECSC | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Potassium hydroxide 1310-58-3 | 1000 lb | - | - | X |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|----------------------------------|--------------------------|----------------|---|
| Potassium hydroxide 1310-58-3 | 1000 lb | - | RQ 1000 lb final RQ RQ 454 kg final RQ |

US State Regulations

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | | | | | |
|-------------|----------------|---|--------------|---|------------------|---|----------------------------------|---|
| <u>NFPA</u> | Health hazards | 1 | Flammability | 0 | Instability | 0 | Physical and Chemical Properties | - |
| <u>HMIS</u> | Health hazards | 1 | Flammability | 0 | Physical hazards | 0 | Personal protection | X |

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Revision Note

No data available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet