



# SAFETY DATA SHEET

Issuing Date 17-Oct-2014

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Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** Thread-Magic Stick

### Other means of identification

**Product Code(s)** TM-1, TKC-1, TMK-1BK (765-2405), TMK-1

**Synonyms** Anti-Seize Wax

### Recommended use of the chemical and restrictions on use

**Recommended Use** Spark plugs, nuts, bolts and fasteners

**Uses advised against** No information available

### Supplier's details

#### **Supplier Address**

AGS Company  
P.O. Box 729  
Muskegon, MI  
49443  
TEL: 800-253-0403

### Emergency telephone number

**Emergency Telephone Number** 800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

This product is considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Germ Cell Mutagenicity

Category 1B

### GHS Label elements, including precautionary statements

### Emergency Overview

**Signal Word**

**Danger**

**Hazard Statements**

• May cause genetic defects

**Appearance** Silver, Wax**Physical State** Semi-Solid.**Odor** Petroleum**Precautionary Statements****Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

**General Advice**

- If exposed or concerned: Get medical attention/advice

**Storage**

- Store locked up.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Very toxic to aquatic life with long lasting effects

0.7965% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

Anti-Seize Wax

| Chemical Name  | CAS-No      | Weight % | Trade secret |
|--|-------------|----------|--------------|
| Petroleum distillates, hydrotreated heavy naphthenic | 64742-52-5  | 15-40    | *            |
| Paraffin   | 8002-74-2   | 15-40    | *            |
| Microcrystalline wax                                 | 63231-60-7  | 10-30    | *            |
| Aluminum   | 7429-90-5   | 1-5      | *            |
| Stearic acid   | 57-11-4     | 1-5      | *            |
| Naphtha (petroleum), hydrotreated heavy              | 64742-48-9  | 1-5      | *            |
| Aluminum iso-propoxide                               | 555-31-7    | 1-5      | *            |
| Petroleum naphtha, light aromatic                    | 64742-95-6  | 1-5      | *            |
| Oxidate  | Proprietary | 0.1-1    | *            |
| Copper   | 7440-50-8   | 0.1-1    | *            |
| Benzoic acid   | 65-85-0     | 0.1-1    | *            |
| Water  | 7732-18-5   | < 0.1    | *            |
| Neodecanoic acid, zinc salt                          | 27253-29-8  | < 0.1    | *            |
| Naphthenic acids, zinc salts                         | 12001-85-3  | < 0.1    | *            |
| Petroleum distillates, hydrotreated middle           | 64742-46-7  | < 0.1    | *            |
| Calcium hydroxide                                    | 1305-62-0   | < 0.1    | *            |

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

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| <b>Skin Contact</b> | Wash skin with soap and water.   |
| <b>Inhalation</b>   | Move to fresh air.   |
| <b>Ingestion</b>    | Clean mouth with water and afterwards drink plenty of water.                           |

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**

No information available.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation.

**Environmental Precautions**

**Environmental Precautions** Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. Collect spillage. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical Name                      | ACGIH TLV                                    | OSHA PEL   | NIOSH IDLH   |
|------------------------------------|--|--|--|
| Paraffin<br>8002-74-2              | TWA: 2 mg/m <sup>3</sup>                     | (vacated) TWA: 2 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup>   |
| Aluminum<br>7429-90-5              | TWA: 1 mg/m <sup>3</sup> respirable fraction | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction<br>(vacated) TWA: 15 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust   |
| Aluminum iso-propoxide<br>555-31-7 | TWA: 1 mg/m <sup>3</sup> respirable fraction | -  | -  |
| Copper<br>7440-50-8                | TWA: 0.2 mg/m <sup>3</sup> fume              | TWA: 0.1 mg/m <sup>3</sup> fume<br>TWA: 1 mg/m <sup>3</sup> dust and mist<br>(vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist  | IDLH: 100 mg/m <sup>3</sup> dust, fume and mist<br>TWA: 1 mg/m <sup>3</sup> dust and mist<br>TWA: 0.1 mg/m <sup>3</sup> fume |
| Calcium hydroxide<br>1305-62-0     | TWA: 5 mg/m <sup>3</sup>                     | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction<br>(vacated) TWA: 5 mg/m <sup>3</sup> not in effect as a result of reconsideration                          | TWA: 5 mg/m <sup>3</sup>   |

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** None required for consumer use. If direct contact possible: Wear protective eyewear (safety glasses).

**Skin and Body Protection** None required for consumer use. If direct contact possible: Wear protective gloves/clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |            |                       |                          |
|-----------------------|------------|-----------------------|--------------------------|
| <b>Physical State</b> | Semi-Solid | <b>Appearance</b>     | Silver Wax               |
| <b>Odor</b>           | Petroleum  | <b>Odor Threshold</b> | No information available |

| <u>Property</u>             | <u>Values</u>             | <u>Remarks/ - Method</u> |
|-----------------------------|---------------------------|--------------------------|
| pH                          | Not applicable            | None known               |
| Melting Point/Range         | No data available         | None known               |
| Boiling Point/Boiling Range | No data available         | None known               |
| Flash Point                 | 193 °C / 380 °F           | None known               |
| Evaporation rate            | Slower than Butyl Acetate | None known               |
| Flammability (solid, gas)   | No data available         | None known               |
| Flammability Limits in Air  |                           |                          |
| upper flammability limit    | No data available         |                          |
| lower flammability limit    | No data available         |                          |
| Vapor Pressure              | No data available         | None known               |
| Vapor Density               | Heavier than air          | None known               |

|   |                   |            |
|---|-------------------|------------|
| <b>Specific Gravity</b>                       | 0.87              | None known |
| <b>Water Solubility</b>                       | Negligible        | None known |
| <b>Solubility in other solvents</b>           | No data available | None known |
| <b>Partition coefficient: n-octanol/water</b> | Negligible        | None known |
| <b>Autoignition Temperature</b>               | No data available | None known |
| <b>Decomposition Temperature</b>              | No data available | None known |
| <b>Viscosity</b>                              | No data available | None known |

**Flammable Properties** Not flammable

**Explosive Properties** No data available

**Oxidizing Properties** No data available

#### Other information

**VOC Content (%)** No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

None known based on information supplied.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | There is no data available for this product  |
| <b>Inhalation</b>          | There is no data available for this product. |
| <b>Eye Contact</b>         | There is no data available for this product. |
| <b>Skin Contact</b>        | There is no data available for this product. |
| <b>Ingestion</b>           | There is no data available for this product. |

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** There is no data available for this product Contains a known or suspected mutagen.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name  | ACGIH | IARC    | NTP | OSHA |
|--|-------|---------|-----|------|
| Petroleum distillates, hydrotreated heavy naphthenic | A2    | Group 1 |     | X    |

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

**Acute Toxicity** 0.7965% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 6237 mg/kg; Acute toxicity estimate

**LD50 Dermal** 5000 mg/kg; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name  | Toxicity to Algae  | Toxicity to Fish  | Toxicity to Microorganisms | Daphnia Magna (Water Flea)  |
|--|--|---|----------------------------|---|
| Petroleum distillates, hydrotreated heavy naphthenic<br>64742-52-5 |  | LC50 96 h: > 5000 mg/L<br>(Oncorhynchus mykiss)   |                            | EC50 48 h: > 1000 mg/L<br>(Daphnia magna)   |
| Stearic acid<br>57-11-4  |  | LC50 96 h: < 3000 mg/L<br>semi-static (Brachydanio rerio)   |                            |   |
| Naphtha (petroleum), hydrotreated heavy<br>64742-48-9              |  | LC50 96 h: = 2200 mg/L<br>(Pimephales promelas)   |                            | LC50 96 h: = 2.6 mg/L<br>(Chaetogammarus marinus)   |
| Petroleum naphtha, light aromatic<br>64742-95-6                    |  | LC50 96 h: = 9.22 mg/L<br>(Oncorhynchus mykiss)   |                            | EC50 48 h: = 6.14 mg/L<br>(Daphnia magna)   |
| Copper<br>7440-50-8  | EC50 96 h: 0.031 - 0.054 mg/L static<br>(Pseudokirchneriella subcapitata)<br>EC50 72 h: 0.0426 - 0.0535 mg/L static<br>(Pseudokirchneriella subcapitata) | LC50 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas)<br>LC50 96 h: < 0.3 mg/L static (Pimephales promelas)<br>LC50 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss)<br>LC50 96 h: = 0.112 mg/L flow-through (Poecilia reticulata)<br>LC50 96 h: = 0.2 mg/L flow-through (Pimephales promelas)<br>LC50 96 h: = 0.3 mg/L semi-static (Cyprinus carpio)<br>LC50 96 h: = 0.8 mg/L static (Cyprinus carpio)<br>LC50 96 h: = 1.25 mg/L static (Lepomis macrochirus) | -                          | EC50 48 h: = 0.03 mg/L Static (Daphnia magna)   |
| Benzoic acid<br>65-85-0  | EC50 3 h: = 5 mg/L<br>(Anabaena inaequalis)  | LC50 96 h: = 180 mg/L<br>(Gambusia affinis)   |                            | EC50 24 h: = 300 mg/L<br>(Daphnia magna)<br>EC50 48 h: = 860 mg/L<br>Static (Daphnia magna) |

|   |  |   |  |  |
|---|--|---|--|--|
| Petroleum distillates,<br>hydrotreated middle<br>64742-46-7 |  | LC50: 35 mg/L Pimephales<br>promelas 96 h flow-through<br>LC50: >10000 mg/L<br>Pimephales promelas 96 h<br>static |  |  |
| Calcium hydroxide<br>1305-62-0                              |  | LC50 96 h: = 160 mg/L static<br>(Gambusia affinis)  |  |  |

**Persistence and Degradability** No information available.

#### Bioaccumulation

| Chemical Name        | Log Pow |
|----------------------|---------|
| Microcrystalline wax | 6.006   |
| Benzoic acid         | 1.93    |

#### Other Adverse Effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated Packaging

Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

|                 |               |
|-----------------|---------------|
| <u>DOT</u>      | Not regulated |
| <u>TDG</u>      | Not regulated |
| <u>MEX</u>      | Not regulated |
| <u>ICAO</u>     | Not regulated |
| <u>IATA</u>     | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |
| <u>RID</u>      | Not regulated |
| <u>ADR</u>      | Not regulated |
| <u>ADN</u>      | Not regulated |

### 15. REGULATORY INFORMATION

#### International Inventories

##### Legend

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

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

#### U.S. Federal Regulations

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.

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---------------|--------|----------|-------------------------------|
|---------------|--------|----------|-------------------------------|

|          |           |        |     |
|----------|-----------|--------|-----|
| Aluminum | 7429-90-5 | 3.2175 | 1.0 |
|----------|-----------|--------|-----|

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**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 |
|------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Copper                       |                             | X                      | X                         |                            |
| Benzoic acid                 | 5000 lb                     |                        |                           | X                          |
| Neodecanoic acid, zinc salt  |                             | X                      |                           |                            |
| Naphthenic acids, zinc salts |                             | 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 | Extremely Hazardous Substances RQs | RQ   |
|---------------|--------------------------|------------------------------------|--|
| Copper        | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Benzoic acid  | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name  | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|--|------------|---------------|--------------|----------|--------------|
| Petroleum distillates, hydrotreated heavy naphthenic |            |               |              | X        |              |
| Paraffin   | X          | X             | X            | -        | X            |
| Aluminum   | X          | X             | X            |          | X            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION**

|             |                  |                |                   |                                 |
|-------------|------------------|----------------|-------------------|---------------------------------|
| <b>NFPA</b> | Health Hazard 1  | Flammability 0 | Instability 0     | Physical and Chemical Hazards - |
| <b>HMIS</b> | Health Hazard 1* | Flammability 0 | Physical Hazard 0 | Personal Protection X           |

\*Indicates a chronic health hazard.

**Prepared By** Product Stewardship  
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**General Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**