SAFETY DATA SHEET



Issuing Date 17-Oct-2014 Revision Date 17-Oct-2014

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 Hazard Statements

May cause genetic defects

Danger



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

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash skin with soap and water.

Inhalation Move to fresh air.

Ingestion 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 Sensitivity to Static Discharge

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

None.

None.

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation.

Environmental Precautions

Environmental PrecautionsAvoid 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 8002-74-2	TWA: 2 mg/m ³	(vacated) TWA: 2 mg/m ³	TWA: 2 mg/m³
Aluminum 7429-90-5	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Aluminum iso-propoxide 555-31-7	TWA: 1 mg/m³ respirable fraction	-	-
Copper 7440-50-8	TWA: 0.2 mg/m³ fume	TWA: 0.1 mg/m³ fume TWA: 1 mg/m³ dust and mist (vacated) TWA: 0.1 mg/m³ Cu dust, fume, mist	IDLH: 100 mg/m³ dust, fume and mist TWA: 1 mg/m³ dust and mist TWA: 0.1 mg/m³ fume
Calcium hydroxide 1305-62-0	TWA: 5 mg/m ³	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ not in effect as a result of reconsideration	TWA: 5 mg/m ³

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 Respiratory Protection None required for consumer use. If direct contact possible: Wear protective gloves/clothing. 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

Physical State Semi-Solid Appearance Silver Wax

OdorPetroleumOdor ThresholdNo information available

Property Values Remarks/ - Method

Not applicable None known pН 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
lower flammability limit
No data available
No data available

Vapor PressureNo data availableNone knownVapor DensityHeavier than airNone known

Charifia Cravity 0.97 None known

Specific Gravity 0.87 None known Negligible Water Solubility None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNegligible None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known No data available None known **Viscosity**

Flammable Properties Not flammable

Explosive PropertiesNo 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

Product InformationThere is no data available for this productInhalationThere is no data available for this product.Eye ContactThere is no data available for this product.Skin ContactThere is no data available for this product.IngestionThere 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 EffectsThere is no data available for this product Contains a known or suspected mutagen.CarcinogenicityThe 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		Х

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard

No information available.
No information available.
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 64742-52-5		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)	, and the second	EC50 48 h: > 1000 mg/L (Daphnia magna)
Stearic acid 57-11-4		LC50 96 h: < 3000 mg/L semi-static (Brachydanio rerio)		
Naphtha (petroleum), hydrotreated heavy 64742-48-9		LC50 96 h: = 2200 mg/L (Pimephales promelas)		LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
Petroleum naphtha, light aromatic 64742-95-6		LC50 96 h: = 9.22 mg/L (Oncorhynchus mykiss)		EC50 48 h: = 6.14 mg/L (Daphnia magna)
Copper 7440-50-8	EC50 96 h: 0.031 - 0.054 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 0.0426 - 0.0535 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas) LC50 96 h: < 0.3 mg/L static (Pimephales promelas) LC50 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.112 mg/L flow-through (Poecilia reticulata) LC50 96 h: = 0.2 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.3 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.8 mg/L static (Cyprinus carpio) LC50 96 h: = 1.25 mg/L static (Lepomis macrochirus)		EC50 48 h: = 0.03 mg/L Static (Daphnia magna)
Benzoic acid 65-85-0	EC50 3 h: = 5 mg/L (Anabaena inaequalis)	LC50 96 h: = 180 mg/L (Gambusia affinis)		EC50 24 h: = 300 mg/L (Daphnia magna) EC50 48 h: = 860 mg/L Static (Daphnia magna)

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

 DOT
 Not regulated

 TDG
 Not regulated

 MEX
 Not regulated

ICAO Not regulated

IMDG/IMO Not regulated

Not regulated

RID Not regulated

ADR 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 - Value	Threshold s %
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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			Χ
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 RQ 2270 kg final RQ
Benzoic acid	5000 lb		RQ 5000 lb final RQ 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				Х	
Paraffin	X	Х	Х	-	X
Aluminum	X	X	Х		Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION						
NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -		
HMIS	Health Hazard 1*	Flammability 0	Physical Hazard 0	Personal Protection X		

^{*}Indicates a chronic health hazard.

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501 17-Oct-2014

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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