Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/25/2024 Version: 1.0

SECTION 1: Identification

Product form : Mixture Trade name : HAWSCLEAN Product code : HSCG35 / HCSS120 / HCSS120 / HCSS200 / HCPP60B 1.2. Recommended use and restrictions on use Recommended use Recommended use : Control of pathogenic bacteria in water systems. Restrictions on use : All other uses not recommended above 1.3. Supplier Haws Corporation Haws Corporation Sparks, IV SP431 1.1. Emergency telephone number Emergency number Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toil Free, USA) / 703-527-3887 (Virgina, USA) (CCN 10284 SECTION 2: Hazard(s) identification CCN 10284 2.1. Classification of the substance or mixture EMERGEN GHS US classification CCN 10284 2.2. GHS Label elements, including precautionary statements EMERGEN Classification Call Science Vi tabeling applicable Call colessification Vi additional information available Call Chematers 2.1. Classification Control of the substance or mixture GHS US labeling Control classification Vi additional information available			
Trade name :: HAWSCLEAN Product code :: HSCC35 / HCSS150 / HCSS200 / HCPP60B 1.2. Recommended use and restrictions on use Recommended use :: Control of pathogenic bacteria in water systems. Restrictions on use :: All other uses not recommended above 1.3. Supplier Haws Corporation 1455 Kloppe LN Sparks, NV 80431 1.7. 600-766-5612 1.4. Emergency telephone number Emergency number :: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virgina, USA) (CCN 10284 SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture GHS US classification Vic classified 2.0. GHS Label elements, including precautionary statements GHS US labeling No labeling applicable 2.1. Other hazards which do not result in classification No additional information available 2.1. Unknown acute toxicity (GHS US) No additional information available No additional information available	1.1. Identification		
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Restrictions on use : All other uses not recommended above 1.3. Supplier Haws Corporation 1455 Kleppe LN Sparks, NV 89831 1.40-766-5612 1.4. Emergency telephone number Emergency number Energency telephone number Energency telephone number Energency number Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virgina, USA) or CN 10284 SECTION 2: Hazard(s) identification 2.1. Classification Not classified 2.2. GHS Label elements, including precautionary statements CAI babeling applicable 2.3. Other hazards which do not result in classification <	1.2. Recommended use and restrictions or	n use	
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No additional information available	No additional information available		
	2.4. Unknown acute toxicity (GHS US)		
SECTION 3: Composition/Information on ingredients	No additional information available		
	SECTION 3: Composition/Information	on ingredients	

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Silver	CAS-No.: 7440-22-4	1.7 – 7.7	Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
Copper	CAS-No.: 7440-50-8	1.7 – 7.7	Aquatic Chronic 2, H411
Zeolite	CAS-No.: 1318-02-1	4.2 - 4.4	STOT SE 3, H335
Diiron trioxide	CAS-No.: 1309-37-1	3 – 3.2	Not classified

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

SECTION 4: First-aid measures

4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self- protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after 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.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a physician immediately.
4.2. Most important symptoms and effect	ets (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 Not expected to present a significant hazard under anticipated conditions of normal use. Not expected to present a significant skin hazard under anticipated conditions of normal use. Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media Unsuitable extinguishing media	Dry chemical, CO2, dry sand, or alcohol-resistant foam.Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemical			
Fire hazard Hazardous decomposition products in case of fire	 Not flammable. Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Metallic oxides. Hydrogen chloride. 		

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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection. Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling exposed containers. Move containers from fire area if it can be done without personal risk. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid contact with skin, eyes and clothing. Do not breathe dust, fume.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Evacuate personnel to a safe area. Ventilate spillage area. Remove all sources of ignition.	

6.2. Environmental precautions

Follow product instructions and best practices for use to avoid misapplications of the product. Do not negligently allow product to enter off-target drains, sewers, or ground water.

6.3. Methods and material for containment and cleaning up		
For containment	: Contain with non-combustible inert absorbent.	
Methods for cleaning up	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Decontaminate surfaces and equipment with water and detergent. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.	

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Keep in a cool, well-ventilated place away from heat.		
Storage conditions	: Keep cool. Protect from sunlight. Keep container tightly closed.		
Incompatible materials	: Strong acids. Strong bases.		

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HAWSCLEAN

No additional information available

Zeolite (1318-02-1)

No additional information available

Silver (7440-22-4)

Silver (7440-22-4)	
USA - ACGIH - Occupational Exposure Lin	nits
Local name	Silver
ACGIH OEL TWA	0.1 mg/m³ (Metal, dust and fume) 0.01 mg/m³ (Soluble compounds, as Ag)
Remark (ACGIH)	TLV® Basis: Argyria
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Lim	its
Local name	Silver, metal and soluble compounds (as Ag)
OSHA PEL TWA	0.01 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Copper (7440-50-8)	
USA - ACGIH - Occupational Exposure Lir	nits
Local name	Copper, as Cu
ACGIH OEL TWA	0.2 mg/m³ (Fume) 1 mg/m³ (Dusts and mists)
Remark (ACGIH)	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Lim	lits
Local name	Copper
OSHA PEL TWA	0.1 mg/m³ (Fume (as Cu)) 1 mg/m³ (Dusts and mists (as Cu))
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Diiron trioxide (1309-37-1)	
USA - ACGIH - Occupational Exposure Lin	nits
Local name	Iron oxide (Fe2O3)
ACGIH OEL TWA	5 mg/m ³ (R - Respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pneumoconiosis. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Lim	its
Local name	Iron oxide fume

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Diiron trioxide (1309-37-1)		
OSHA PEL TWA	10 mg/m ³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
8.2. Appropriate engineering control	S	
Appropriate engineering controls	: Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits.	
Environmental exposure controls	: Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.	

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Materials for protective clothing:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138

Hand protection:

Hand protection should be chosen depending on activity. If dust are formed : Wear protective gloves

Eye protection:

In case of dust production: protective goggles

Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation. NIOSH approved dust/mist respirator under dusty or irritating conditions

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid.
Appearance	: Round.
Color	: White Brown
Odor	: Odorless
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available

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Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic	Not applicableNo data availableNot applicableNo data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Metallic oxides. Hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity (dermal) :	Not classified Not classified Not classified
Zeolite	
LD50 oral rat	> 5110 mg/kg
LD50 oral	31600 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	2500 mg/kg

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Zeolite	
LC50 Inhalation - Rat	> 3.35 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	14 mg/l/4h
Silver	
LC50 Inhalation - Rat	> 5.16 mg/l/4h
Copper	
LD50 dermal rat	> 2000 mg/kg body weight
LC50 Inhalation - Rat	> 5.11 mg/l air
Diiron trioxide	
LD50 oral	> 5000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Zeolite	
IARC group	3 - Not classifiable
Diiron trioxide	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Silver	
LOAEL (animal/female, F0/P)	40 mg/kg body weight (rat)
NOAEL (animal/female, F0/P)	4 mg/kg body weight (rat)
STOT-single exposure	: Not classified
Zeolite	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Silver	
LOAEL (oral,rat,90 days)	125 mg/kg body weight
Diiron trioxide	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.2102 mg/l air
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight
NOAEC (inhalation,rat,dust/mist/fume,90 days)	≥ 0.03 mg/l air
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 Not expected to present a significant hazard under anticipated conditions of normal use. Not expected to present a significant skin hazard under anticipated conditions of normal use. Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

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Symptoms/effects after ingestion

: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

SECTION 12: Ecological informatio	on and a second s
12.1. Toxicity	
Ecology - general	: In the form in which it is marketed, the product causes no danger to the environment. If the product form in the as-supplied state is changed through further processing (e.g. through grinding, polishing, electrical discharge machining, welding or melting) and dust or vapours are produced, the following hazards are associated with the product. Harmful to aquatic life.
Zeolite	
LC50 - Fish [1]	1800 mg/l
EC50 - Crustacea [1]	377.17 mg/l
EC50 96h - Algae [1]	560 mg/l
LOEC (chronic)	100 mg/l
NOEC (chronic)	32 mg/l
NOEC chronic fish	175 mg/l
NOEC chronic crustacea	200 mg/l
Silver	
LC50 - Fish [1]	4.7 μg/l
LC50 - Fish [2]	89.4 µg/l
Diiron trioxide	
EC50 - Crustacea [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 72h - Algae [1]	> 20 mg/l
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	tions
13.1. Disposal methods	
Regional waste regulation Waste treatment methods	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	 Dispose of contents/container in accordance with incensed contector's solung instructions. Disposal must be done according to official regulations.

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Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Refer to
	all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA		
DOT	IMDG	ΙΑΤΑ
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

ΙΑΤΑ

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as (TSCA) inventory, except for:	s Active on the United States Environme	ntal Protection Agency Toxic Substances Control Act
Zeolite CAS-No. 1318-02-1 4.2 – 4.4%		4.2 – 4.4%
Chemical(s) subject to the reporting requirements of Se and 40 CFR Part 372.	ection 313 or Title III of the Superfund An	nendments and Reauthorization Act (SARA) of 1986

Silver	CAS-No. 7440-22-4	1.7 – 7.7%

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Copper	CAS-No. 7440-50-8	1.7 – 7.7%
Silver (7440-22-4)		
CERCLA RQ	1000 lb	
Copper (7440-50-8)		
CERCLA RQ	5000 lb	
15.2. International regulations		
CANADA		
Zeolite (1318-02-1)		
Listed on the Canadian DSL (Domestic Substances Lis	t)	
Silver (7440-22-4)		
Listed on the Canadian DSL (Domestic Substances Lis	t)	
Copper (7440-50-8)		
Listed on the Canadian DSL (Domestic Substances Lis	t)	
Diiron trioxide (1309-37-1)		
Listed on the Canadian DSL (Domestic Substances Lis	t)	
EU-Regulations		
No additional information available		
National regulations		
Silver (7440-22-4)		
Listed on INSQ (Mexican National Inventory of Chemica	al Substances)	
Copper (7440-50-8)		
Listed on INSQ (Mexican National Inventory of Chemica	al Substances)	
Diiron trioxide (1309-37-1)		
Listed on INSQ (Mexican National Inventory of Chemica	al Substances)	
	,	
15.3. US State regulations		
California Proposition 65 - This product does not contain reproductive harm	any substances known to the state of C	alifornia to cause cancer, developmental and/or

SECTION 16: Other information

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Full text of H	Full text of H-phrases	
H335	H335 May cause respiratory irritation	
H410	H410 Very toxic to aquatic life with long lasting effects	
H411 Toxic to aquatic life with long lasting effects		

Abbreviation	s and acronyms
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds

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Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.