

# **SAFETY DATA SHEET**

Issue Date 01-May-2009 Revision Date 06-Nov-2013 Version 1

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1.Product Identifier

SDS # FSC-002 Product Name STAR SAN HB

#### 1.2.Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use Cleaning Agent

#### 1.3. Details of the Supplier of the Safety Data Sheet

#### <u>Supplier</u>

Five Star Chemicals & Supply, Inc. 4915 E. 52nd Ave.
Commerce City, CO 80022

#### Importer

Brouwland bvba Korpelsesteenweg 86 3581 Beverlo, Belgium 0032 (0) 11/40.14.08

# For further information, please contact

Contact Point Five Star Chemicals & Supply, Inc. 1-303-287-0186

Email Address support@fivestarchemicals.com

# 1.4. Emergency Telephone Number

For product information in case of emergency call 0032-(0) 14 58 45 45

# **Section 2: HAZARDS IDENTIFICATION**

#### 2.1.Classification of the Substance or Mixture

#### Regulation (EC) No 1272/2008

Skin Corrosion/Irritation	Category 1 Sub-category B
Corrosive to metals	Category 1

#### Classification according to 67/548/EEC

Full text of R-phrases: see section 16

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#### 2.2.Label Elements



Signal Word Danger

#### **Hazard Statements**

H314 - Causes severe skin burns and eye damage

H290- May be corrosive to metals

#### Precautionary Statements - EU (§28, 1272/2008)

P101- If medical advice is needed, have product container or label at hand

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P304+P340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 - Immediately call a POISON CENTER or doctor/physician

P301+P330+P331- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P405 - store locked up

P501 - Rinse empty container and dispose of container in accordance with local regulations

#### 2.3. Other Hazards

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Phosphoric acid	Present	7664-38-2	50%	C; R34	Skin Corr. 1B (H314) Met. Corr. 1 (H290)	Not determined
Dodecyl benzene sulfonic acid	Present	27176-87-0	5-15%	Xn; R21/22 C;R34	Skin Corr. 1C (H314) Acute tox 4 –H302 Acute tox 3 - H311	Not determined
Proprietary	Present	Proprietary	<5%	-	Not determined	Not determined

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

# **Section 4: FIRST AID MEASURES**

# 4.1.Description of First Aid Measures

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician immediately.

**Skin Contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash

contaminated clothing before reuse. Get medical attention if irritation occurs.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Call a physician

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**Ingestion** Promptly drink large quantities of milk, egg white, gelatin solution, or if these are not

available, drink large quantities of water. Do NOT induce vomiting. Call a physician or

poison control center immediately.

#### 4.2.Most Important Symptoms and Effects. Both Acute and Delayed

**Symptoms** May cause eye burns and permanent eye damage. May cause respiratory irritation. May

cause redness, pain, and severe skin burns. Irritation and corrosive burns to mouth, throat,

and stomach.

#### 4.3.Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians If the product is ingested, probable mucosal damage may contraindicate the use of gastric

lavage. Measures against circulatory shock, respiratory depression, and convulsions may

be needed.

# **Section 5: FIRE FIGHTING MEASURES**

#### 5.1.Extinguishing Media

#### Suitable Extinguishing Media

Water. Carbon dioxide (CO2). Foam.

#### **Unsuitable Extinguishing Media**

None known

#### 5.2. Special Hazards Arising from the Substance or Mixture

Contact with metals may evolve flammable hydrogen gas Heat may cause the containers to explode Contact with chlorine will evolve chlorine gas

**Hazardous Combustion** 

Products

Phosphorus oxides.

# 5.3.Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

# 6.1.Personal Precautions. Protective Equipment and Emergency Procedures

#### **Personal Precautions**

Avoid ignition sources.

#### For Emergency Responders

Use personal protection recommended in Section 8.

#### 6.2.Environmental Precautions

Collect spillage.

#### 6.3.Methods and Material for Containment and Cleaning Up

**Methods for Containment** Dike and contain spill.

**Methods for Cleaning Up**Absorb with inert material, and then place in suitable container for chemical waste.

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#### 6.4.Reference to Other Sections

See Section 12: ECOLOGICAL INFORMATION.

# **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for Safe Handling

#### **Advice on Safe Handling**

Use personal protection recommended in Section 8. Do not breathe fumes AND gas AND mist AND vapors AND spray.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2.Conditions for Safe Storage, Including any Incompatibilities

#### **Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place.

#### 7.3.Specific End Use(s)

#### **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1.Control Parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Phosphoric acid 7664-38-2	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	STEL: 2 mg/m³ TWA: 1 mg/m³	TWA: 0.2 ppm TWA: 1 mg/m³ STEL: 0.5 ppm STEL: 2 mg/m³	STEL: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> Ceiling / Peak: 4 mg/m <sup>3</sup>
Proprietary	TWA: 150 ppm; 474 mg/m3 STEL 450ppm;	TWA: 150 ppm; 474 mg/m3 STEL 450ppm;	-	-	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Phosphoric acid 7664-38-2 ( 30-40 )	TWA: 1 mg/m³ STEL: 2 mg/m³	STEL: 3 mg/m³ TWA: 1 mg/m³	STEL: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m <sup>3</sup>
Proprietary	-	-		-	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Phosphoric acid 7664-38-2	STEL 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	STEL: 2 mg/m³ TWA: 1 mg/m³	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m³ STEL: 2 mg/m³
Proprietary	-	-	-	-	-

#### 8.2. Exposure Controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**Eye/Face Protection** Tight sealing safety goggles.

Hand Protection Chemical resistant, impermeable gloves.

**Skin and Body Protection** Suitable protective clothing.

**Respiratory Protection** If exposure limits are exceeded, use an approved full face piece air-purifying respirator.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1.Information on Basic Physical and Chemical Properties

Physical State Liquid

AppearanceDark amber liquidOdorSlight

**Color** Dark amber

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Property Values Remarks • Method

**pH** 1

Melting Point/Freezing PointNot determinedBoiling Point/Boiling RangeNot determinedFlash Point> 61.1 °C / > 142 °F

Evaporation Rate 0.9 (Water = 1) Flammability (Solid, Gas)

Flammability (Solid, Gas)
Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

Not determined
Not determined
Not determined
Not determined

Specific Gravity 1.36

Water Solubility Completely soluble Solubility(ies) Not determined **Partition Coefficient** Not determined **Autoignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not an explosive **Oxidizing Properties** Not determined

#### 9.2.Other Information

# **Section 10: STABILITY AND REACTIVITY**

#### 10.1.Reactivity

Not reactive under normal conditions.

#### 10.2.Chemical Stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 10.3.Possibility of Hazardous Reactions

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### 10.4.Conditions to Avoid

Contact with incompatible materials.

#### 10.5.Incompatible Materials

Alkalis. Chlorinated compounds. Soft metals.

#### 10.6.Hazardous Decomposition Products

May give off phosphorous oxide at high heat (fire conditions).

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# **Section 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information on Toxicological Effects

**Acute Toxicity** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

Inhalation /

Ingestion /

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid	= 1530 mg/kg (Rat)	= 2730 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> (Rat) 1 h
Dodecyl benzene sulfonic acid	= 530 mg/kg (Rat)	= 530 mg/kg (Rat)	
Proprietary	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	

**Symptoms** Please see section 4 of this SDS for symptoms.

# **Section 12: ECOLOGICAL INFORMATION**

#### 12.1.Toxicity

Toxic to aquatic life Toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosphoric acid		3 - 3.5: 96 h Gambusia affinis mg/L	4.6: 12 h Daphnia magna mg/L
· ·		LC50	EC50
Proprietary	19000 mg/L	51600 mg/L	>10000 mg/L

# 12.2.Persistence and Degradability

Not determined.

# 12.3.Bioaccumulative Potential

Not determined.

# 12.4. Mobility in Soil

# Mobility in soil

Not determined.

# 12.5.Results of PBT and vPvB Assessment

Not determined.

# 12.6.Other Adverse Effects

Not determined

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# **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste Treatment Methods

Waste from Residues / Unused

**Products** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** 

Improper disposal or reuse of this container may be dangerous and illegal.

# **Section 14: TRANSPORT INFORMATION**

Please see current shipping paper for most up to date shipping information, including Note

exemptions and special circumstances

<u>IMDG</u>

14.1 UN/ID No UN1760

14.2 Proper Shipping Name Corrosive liquid, n.o.s. (Phosphoric acid, Dodecylbenzene sulfonic acid)

**Hazard Class** 14.3 Ш

14.4 Packing Group

14.5 14.6

14.7

RID

14.1 **UN/ID No** UN1760

14.2 Proper Shipping Name Corrosive liquid, n.o.s. (Phosphoric acid, Dodecylbenzene sulfonic acid)

**Hazard Class** 14.3 14.4 Packing Group Ш

14.5

14.6

ADR

14.1 UN/ID No UN1760

14.2 Proper Shipping Name Corrosive liquid, n.o.s. (Phosphoric acid, Dodecylbenzene sulfonic acid)

14.3 Hazard Class 14.4 Packing Group Ш

14.5 14.6

ICAO (air)

14.1 UN/ID No UN1760

14.2 Proper Shipping Name Corrosive liquid, n.o.s. (Phosphoric acid, Dodecylbenzene sulfonic acid)

14.3 Hazard Class 14.4 Packing Group Ш

14.5

14.6

IATA

14.1 UN/ID No UN1760

14.2 Proper Shipping Name Corrosive liquid, n.o.s. (Phosphoric acid, Dodecylbenzene sulfonic acid)

14.3 Hazard Class 14.4 Packing Group Ш

14.5 14.6

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# **Section 15: REGULATORY INFORMATION**

#### 15.1.Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### International Inventories

TSCA EINECS/ELINCS DSL/NDSL PICCS ENCS IECSC AICS KECL -

#### Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

#### 15.2.Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

# **Section 16: OTHER INFORMATION**

# Full text of R-phrases referred to under sections 2 and 3

R34 - Causes burns

# Classification procedure

Calculation method

Issue Date01-May-2009Revision Date06-November-2013Revision NoteNew format.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### 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**