**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name : **SPOTLESS HD**

Other means of identification : Not applicable

Recommended use : Concentrated acid rinse additive

Restrictions on use : For industrial and professional use

Company Advanced Chemical Technology, Inc

 4940 Jackson St

Denver, Colorado 80216

Emergency telephone (800) 535-5053

Poison control center (800)-222-1222

Issuing date 01/16/2016

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Eye irritation : Category 2B

**GHS Label elements**

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**

:Wash hands thoroughly after handling.

 : **Response:**

: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.

**Other hazards** : None known

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

**Chemical Name CAS-No. Concentration (%)**

Sodium Xylenesulfonate 1300-72-7 1- 5

oxirane, methyl-, polymer 9003-11-6 5 – 20

Citric acid 5949-29-1 1 - 5

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse with plenty of water.

In case skin contact  : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to Physician : Treat symptomatically.

Most important symptoms : See section 11 for more detailed information on health effects

and effects, both acute and and symptoms.

delayed

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

 Circumstances and the surrounding environment.

Unsuitable extinguishing media : None known

Specific hazards during fire : Not flammable or combustible.

fighting

Hazardous combustion : Decomposition products may include the following materials:

products Carbon oxides

Special protective equipment : Use personal protective equipment.

for fire-fighters

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be

 disposed of in accordance with local regulations. In the event of

 fire and/or explosion do not breathe fumes.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Refer to protective measures listed in sections 7 and 8.

protective equipment and

emergency procedures

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for : Stop leak if safe to do so. Contain spillage, and then collect with

containment and cleaning up non-combustible absorbent material, (e.g. sand, earth,

 diatomaceous earth, vermiculite) and place in container for

 disposal according to local/ national regulations (see section 13).

 Flush away traces with water. For large spills, dike spilled material

 or otherwise contain material to ensure runoff does not reach a

 waterway.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled

 containers.

Storage temperature : 0 ̊C to 50 ̊C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters None**

Engineering measures : Good general ventilation should be sufficient to control worker

 exposure to airborne contaminants.

**Personal protective equipment**

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene Measures : Handle in accordance with good industrial hygiene and safety

 practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid

Color : blue

Odor : mild

pH : 2.0 - 3.0 (100%)

Flash point : > 100 ̊C

Odor threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and : > 100 ̊C boiling range

Evaporation Rate : No data available

Flammability (solid, gas) : No data available

Upper Explosion Limit : No data available

Lower Explosion Limit : No data available

Vapor Pressure : No data available

Relative Vapor Density : No data available

Specific Gravity 1.033

Relative Density : No data available

Water Solubility : complete

Solubility in Other Solvents : No data available

Partition Coefficient: n- octanol/Water : No data available

Autoignition Temperature : No data available

Thermal Decomposition : No data available

Viscosity, Kinematic : No data available

Explosive Properties : No data available

Oxidizing Properties : The substance/mixture is not classified as oxidizing

Molecular Weight : No data available

VOC : None

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions

Possibility of hazardous : Do not mix with bleach or other chlorinated products – will cause

reactions chlorine gas.

Conditions to avoid : None known

Materials to avoid : None known

Hazardous decomposition : Under normal conditions of storage and use, hazardous

products decomposition products should not be produced.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact, Skin contact

exposure

**Potential Health Effects**

Eyes : May causes eye irritation.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic exposure **:** Health injuries are not known or expected under normal use.

**Experience with human exposure**

Eye contact : Redness, Irritation

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Toxicity**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation : No data available

Serious eye damage/eye : No data available

Irritation

Respiratory or skin : No data available

sensitization

Carcinogenicity : No data available

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT -single exposure : No data available

STOT -repeated exposure : No data available

Aspiration toxicity : No data available

**Ingredients**

Acute oral toxicity : Sodium Xylenesulfonate

 7200 mg/kg (Rat)

 oxirane, methyl-, polymer

 with oxirane

 LD50 >2000 mg/kg (Rat)

Acute inhalation toxicity : oxirane, methyl-, polymer

 with oxirane

 0.147 mg/kg (Rat)

Acute dermal toxicity : oxirane, methyl-, polymer

 with oxirane

 >2000 mg/kg

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Environmental Effects **:** Harmful to aquatic life

**Product**

Toxicity to fish : No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

**Ingredients**

 : nonionic surfactants

 96 h LC50 Fish: 1.125 mg/l

**Ingredients**

Toxicity to algae : sodium xylenesulfonate

 96 h EC50: 230 mg/l

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

**Other adverse effects** : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : The product should not be allowed to enter drains, water

 courses or the soil.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

**SECTION 14. TRANSPORT INFORMATION**

This shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land Transport (DOT)**

Not regulated

**Sea Transport (IMDG/IMO)**

Not regulated

**SECTION 15. REGULATORY INFORMATION**

**EPCRA – Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substance Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ

**SARA 311/312 Hazards :**  Acute Health Hazard

**SARA 302 :** No chemicals in this material are subject to the reporting

 Requirements of SARA Title lll, Section 302.

**SARA 313 :** This material does not contain any chemical components

 with known CAS numbers that exceed the threshold (De

 Minimus) reporting levels established by SARA Title lll,

 Section 313.

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other

reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**

On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**

This product contains one or several components listed in the Canadian NDSL.

**SECTION 16. OTHER INFORMATION**

**Hazardous Material :**

**Information System (U.S.A)**

 **Health 1**

 **Flammability**  **0**

 **Physical Hazards** **0**

**NFPA:**

 **Flammability**

**13**

**Instability/**

**Reactivity**

**Health**

**0**

**0**

 **Special Hazard**

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Prepared by : Specialty Chemicals & Systems

Notice to reader

The information provided in this Material 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.