



## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HI-CON DISHWASHING CONCENTRATE

Other means of identification : Not applicable

Recommended use : Manual Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.3 %

Company : SSDC Division  
Kay Chemical Company  
4050 Corporate Dr., #100  
Grapevine, Texas USA 76051-2326  
1-800-532-7732 (Customer Service)

Emergency health information : 1-800-391-1504

Issuing date : 06/03/2022

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

##### Product AS SOLD

Eye irritation : Category 2B

##### Product AT USE DILUTION

Not a hazardous substance or mixture.

##### GHS label elements

##### Product AS SOLD

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**  
Wash skin 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.

##### Product AT USE DILUTION

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

##### Product AS SOLD

Other hazards : None known.

# SAFETY DATA SHEET

## HI-CON DISHWASHING CONCENTRATE

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Product AS SOLD

Pure substance/mixture : Mixture

Chemical name	CAS-No.	Concentration (%)
Secondary Alkanesulphonates	68439-57-6	5 - 10
Sodium poly(oxyethylene) dodecyl ether sulfate	68585-34-2	1 - 5
Dodecyldimethylamine oxide	1643-20-5	1 - 5
sodium chloride	7647-14-5	1 - 5
Alkylamineoxides	3332-27-2	1 - 5
Sodium Xylenesulfonate	1300-72-7	1 - 5
ethanol	64-17-5	0.1 - 1

#### Product AT USE DILUTION

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

#### Product AS SOLD

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

In case of 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 and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

#### Product AT USE DILUTION

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

In case of 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.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

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 fighting : Not flammable or combustible.

## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides
Special protective equipment for fire-fighters	: Use personal protective equipment.
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

#### Product AS SOLD

Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	: Stop leak if safe to do so. Contain spillage, and then collect with 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.

#### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	: Stop leak if safe to do so. Contain spillage, and then collect with 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

#### Product AS SOLD

Advice on safe handling	: Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Conditions for safe storage	: Keep out of reach of children. Store in suitable labeled containers.
Storage temperature	: 5 °C to 50 °C

#### Product AT USE DILUTION

Advice on safe handling	: Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.
Conditions for safe storage	: Keep out of reach of children. Store in suitable labeled containers.

# SAFETY DATA SHEET

## HI-CON DISHWASHING CONCENTRATE

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

#### Ingredients with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z-1

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.

#### Product AT USE DILUTION

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.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, yellow	colorless
Odor	: Floral	Floral
pH	: 6.0 - 9.0, (100 %)	6.0 - 8.0
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and	: > 100 °C	

## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

boiling range

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 1.023 - 1.043

Water solubility : soluble

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 or mixture is not classified as oxidizing.

Molecular weight : No data available

VOC : No data available

### SECTION 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

#### Product AS SOLD

Eyes : Causes eye irritation.

## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

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.

#### Product AT USE DILUTION

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

##### Product AS SOLD

Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

#### Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

#### Toxicity

##### Product AS SOLD

##### Product

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 irritation	: No data available
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available

## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

#### Components

Acute inhalation toxicity : Secondary Alkanesulphonates  
4 h LC50 Rat: > 52 mg/l  
Test atmosphere: dust/mist

ethanol  
4 h LC50 Rat: 117 mg/l  
Test atmosphere: vapor

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product AS SOLD

Environmental Effects : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

##### Product AT USE DILUTION

Environmental Effects : This product has no known ecotoxicological effects.

##### Product AS SOLD

##### Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

#### Components

Toxicity to fish : Secondary Alkanesulphonates  
96 h LC50 Danio rerio (zebra fish): 4.2 mg/l  
  
Sodium poly(oxyethylene) dodecyl ether sulfate  
96 h LC50 Fish: 28 mg/l  
  
Dodecyldimethylamine oxide  
96 h LC50 Lepomis macrochirus (Bluegill sunfish): 31.8 mg/l  
  
sodium chloride  
96 h LC50 Fish: 5,840 mg/l  
  
Alkylamineoxides  
96 h LC50 Danio rerio (zebra fish): 2.4 mg/l  
  
ethanol  
96 h LC50 Pimephales promelas: > 100 mg/l

#### Components

Toxicity to daphnia and other aquatic invertebrates : Secondary Alkanesulphonates  
72 h EC50 Ceriodaphnia dubia (water flea): 4.53 mg/l

Dodecyldimethylamine oxide  
48 h EC50 Daphnia magna (Water flea): 3.9 mg/l

## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

sodium chloride  
48 h EC50 Daphnia magna (Water flea): 4,146 mg/l

Alkylamineoxides  
48 h EC50 Daphnia magna (Water flea): 2.64 mg/l

ethanol  
48 h EC50 Aquatic Invertebrate: 857 mg/l

#### Components

Toxicity to algae : Secondary Alkanesulphonates  
72 h EC50 Skeletonema costatum (marine diatom): 5.2 mg/l

Alkylamineoxides  
72 h EC50 Pseudokirchneriella subcapitata (green algae): 0.266 mg/l  
28 d NOEC: > 0.067 mg/l

Sodium Xylenesulfonate  
96 h EC50: 230 mg/l

#### Persistence and degradability

##### Product AT USE DILUTION

Biodegradable

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Product AS SOLD

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

##### Product AT USE DILUTION

Disposal methods : Diluted product can be flushed to sanitary sewer.

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

### SECTION 14. TRANSPORT INFORMATION

#### Product AS SOLD



## SAFETY DATA SHEET

### HI-CON DISHWASHING CONCENTRATE

The 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 dangerous goods

#### Sea transport (IMDG/IMO)

Not dangerous goods

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

#### 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 Substances Reportable Quantity

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

**SARA 311/312 Hazards** : Serious eye damage or eye irritation

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, 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.

#### California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation applies to this product.

Chemical Name	CAS-No.	Function	List(s)
water	7732-18-5	Diluent	Not Applicable
Secondary Alkanesulphonates	68439-57-6	Cleaning Agent	Not Applicable
Sodium poly(oxyethylene) dodecyl ether sulfate	68585-34-2	Cleaning Agent	Not Applicable
Dodecyldimethylamine oxide	1643-20-5	Cleaning Agent	Not Applicable
sodium chloride	7647-14-5	Processing Aid	Not Applicable
Alkylamineoxides	3332-27-2	Cleaning Agent	Not Applicable
Sodium Xylenesulfonate	1300-72-7	Processing Aid	Not Applicable
Limonene	5989-27-5	Fragrance	FRA
Organic acid	Withheld	Buffer	Not Applicable
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-6-yl propionate	17511-60-3	Fragrance	Not Applicable
3,7-dimethyloct-6-enenitrile	51566-62-2	Fragrance	Not Applicable
Beta-Pinene	127-91-3	Fragrance	Not Applicable
terpinolene	586-62-9	Fragrance	Not Applicable
phenethyl alcohol	60-12-8	Fragrance	Not Applicable
3-cyclohexene-1-methanol,	98-55-5	Fragrance	Not Applicable

# SAFETY DATA SHEET

## HI-CON DISHWASHING CONCENTRATE

.alpha.,.alpha.,4-trimethyl- p-mentha-1,4-diene	99-85-4	Fragrance	Not Applicable
solvents /additives	123-68-2	Fragrance	Not Applicable
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	Fragrance	Not Applicable
glutaraldehyde	111-30-8	Biocide	8, 20
Colorant	Withheld	Dye	Not Applicable

\*refer to ecolab.com/sds for electronic links to designated lists

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

### United States TSCA Inventory :

All substances listed as active on the TSCA inventory

### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL

### Australia. Australian Industrial Chemicals Introduction Scheme (AICIS) :

not determined

### New Zealand. Inventory of Chemical Substances :

not determined

### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

### Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

not determined

### China. Inventory of Existing Chemical Substances in China (IECSC) :

not determined

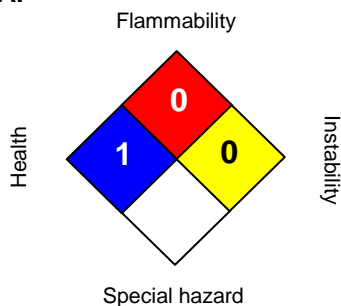
### Taiwan Chemical Substance Inventory (TCSI) :

not determined

## SECTION 16. OTHER INFORMATION

### Product AS SOLD

#### NFPA:



#### HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

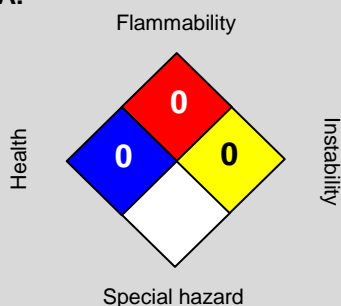
0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### Product AT USE DILUTION

# SAFETY DATA SHEET

## HI-CON DISHWASHING CONCENTRATE

### NFPA:



### HMIS III:

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 06/03/2022  
Version : 1.1  
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.