



## Safety Data Sheet

According to HCS-2012 APPENDIX D TO §1910.1200

**Applicant:** Halloa Enterprise Co., LTD

**Address:** Fl.9, No.111-33, Sec.4, San Ho Road, San Chung District, New Taipei City, 241-52 Taiwan, R.O.C.

**Attn.:** Ray Huang

**Sample Description:** IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION

**Model No.:** /

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**SECTION 1: Identification of the substance /mixture and of the company/undertaking**

**1.1. Product identifier**

Product Name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION  
Brand IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION  
Model No.: Not applicable  
REACH registration No.: Not applicable

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended Use: CLEANING SOLUTION FOR SCREENS AND AUDIO/VIDEO/  
DIGITAL/COMPUTER PRODUCTS  
Uses advised against: No information available

**1.3. Details of the supplier of the safety data sheet**

Company: HongCheng Electronics (HuiZhou) Co., Ltd  
Address: Longshan 7 Road,Xiangshuihe Industrial District,Dayawan  
Economical Technology Development Zone,Huizhou City,Guang  
Dong,China  
Telephone: +086752-5952323-36  
FAX: +086752-5952330  
E-mail: halloa36@halloa.com.tw

**1.4. Emergency telephone number**

Emergency Phone: +086752-5952323-36

**SECTION 2: Hazards identification**

**2.1. GHS - Classification**

Not classified as hazardous.

**2.2. Label elements**

This product is not classified as hazardous.

Symbols/Pictograms Not applicable.  
Signal word Not applicable.  
Hazard Statements Not applicable.  
Precautionary Statements Not applicable.

**2.3. Description of any hazards not otherwise classified**

No information available

**2.4. Ingredient with unknown acute toxicity**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1. Mixture**

Chemical name	CAS No.	Concentration (%)
Water	7732-18-5	99.93622
ethyldimethyl[3-[(1-oxoisooctadecyl)amino]propyl]ammonium ethyl sulphate	67633-63-0	0.021
Butan-1-ol	71-36-3	0.0115
Quaternary ammonium compounds, coco alkyl[(2,4-dichlorophenyl)methyl]dimethyl, chlorides	93572-62-4	0.01
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	0.01
(C12-C16)Alkyl dimethyl(dichlorobenzyl)ammonium chloride	68989-02-6	0.0075
Poly(oxyethylene) {structure-based}, poly(ethylene oxide) {source-based}	25322-68-3	0.0015
Alcohols, C12-14-secondary	126950-60-5	0.001
5-Chlor-2-methyl-4-isothiazolin-3-one	26172-55-4	0.00096
2-methyl-2H-isothiazol-3-one	2682-20-4	0.00032

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.



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**Skin Contact**

Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If symptoms persist, call a physician.

**Ingestion**

If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms/effects, acute and delayed**

No information available.

**4.3. Immediate medical attention and special treatment**

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : No information available.

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating and toxic gases and vapors

**5.3. Special protective equipment and precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.



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**6.2. Methods and materials for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Ingredients with limit values that require monitoring at the workplace:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Butan-1-ol (CAS #: 71-36-3)	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m <sup>3</sup> (vacated) S* (vacated) Ceiling: 50 ppm (vacated) Ceiling: 150 mg/m <sup>3</sup>	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m <sup>3</sup>	Ceiling: 50 ppm Ceiling: 150 mg/m <sup>3</sup> Skin	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Butan-1-ol (CAS #: 71-36-3)	TWA: 10 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 150 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 75 ppm STEL: 230 mg/m <sup>3</sup> Skin	TWA: 100 ppm TWA: 310 mg/m <sup>3</sup> Ceiling / Peak: 100 ppm Ceiling / Peak: 310 mg/m <sup>3</sup>	-

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Poly(oxyethylene) {structure-based},poly(ethylene oxide) {source-based} (CAS #: 25322-68-3)	-	-	TWA: 1000 mg/m <sup>3</sup> Ceiling / Peak: 8000 mg/m <sup>3</sup>	-
5-Chlor-2-methyl-4-isothiazolin-3-one (CAS #: 26172-55-4)	-	-	TWA: 0.2 mg/m <sup>3</sup> Ceiling / Peak: 0.4 mg/m <sup>3</sup>	-
2-methyl-2H-isothiazol-3-one (CAS #: 2682-20-4)	-	-	TWA: 0.2 mg/m <sup>3</sup> Ceiling / Peak: 0.4 mg/m <sup>3</sup>	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Butan-1-ol (CAS #: 71-36-3)	STEL: 150 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>	TWA: 20 ppm	S* STEL: 50 ppm STEL: 154 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 150 mg/m <sup>3</sup> TWA: 50 ppm TWA: 150 mg/m <sup>3</sup>	-

Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Butan-1-ol (CAS #: 71-36-3)	Skin Ceiling: 25 ppm Ceiling: 75 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 154 mg/m <sup>3</sup> Skin	50 ppm Peak 152 mg/m <sup>3</sup> Peak Skin	STEL 200 ppm STEL 600 mg/m <sup>3</sup> TWA: 50 ppm TWA: 150 mg/m <sup>3</sup>	-
Poly(oxyethylene) {structure-based},poly(ethylene oxide) {source-based} (CAS #: 25322-68-3)	-	-	-	STEL 4000 mg/m <sup>3</sup> TWA: 1000 mg/m <sup>3</sup>	-
5-Chlor-2-methyl-4-isothiazolin-3-one (CAS #: 26172-55-4)	-	-	-	Skin TWA: 0.05 mg/m <sup>3</sup>	-
2-methyl-2H-isothiazol-3-one (CAS #: 2682-20-4)	-	-	-	Skin TWA: 0.05 mg/m <sup>3</sup>	-

## 8.2. Appropriate engineering controls

No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.

### 8.3. Personal protective equipment

<b>Respiratory protection:</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection:</b>	Wear protective gloves.
<b>Eye/face protection:</b>	No special technical protective measures are necessary.
<b>Skin/body protection:</b>	Wear suitable protective clothing.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Color	Colorless
Odor	Slight smell
Odor Threshold	No information available
pH-value at 26°C	5.6 (61% RH)
Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	> 100°C (closed up)
Evaporation rate	No information available
Flammability	Not flammable
Flammability Limit in Air	No information available
Self-igniting	Product is not selfigniting
Vapor Pressure	No information available
Vapor density	No information available
Density	No information available
Relative density	No information available
Bulk density	No information available
Specific gravity	No information available
Water solubility	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	Not an explosive
Oxidizing properties	The substance does not belong to oxidizing substance.

**9.2. Other information**

No information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under recommended storage and handling conditions (see section 7, handling and storage).

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

Heat, flames and sparks.

**10.5. Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

None under normal use conditions.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water (CAS #: 7732-18-5)	> 89800 mg/kg (Rat)	-	-
Butan-1-ol (CAS #: 71-36-3)	= 700 mg/kg (Rat) = 790 mg/kg (Rat)	= 3400 mg/kg (Rabbit) ) = 3402 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Alcohols, C12-14-secondary, ethoxylated (CAS #: 84133-50-6)	= 2100 mg/kg (Rat)	-	-
Poly(oxyethylene) {structure-based}, poly(ethylene oxide) {source-based} (CAS #: 25322-68-3)	= 22 g/kg (Rat) = 28 g/kg (Rat)	> 20 g/kg (Rabbit) > 20 mL/kg (Rabbit)	-
5-Chlor-2-methyl-4-	= 481 mg/kg (Rat)	-	= 1.23 mg/L (Rat) 4 h



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isothiazolin-3-one (CAS #: 26172-55-4)			
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Skin corrosion/irritation:	No data available.
Serious eye damage/irritation:	No data available.
Respiratory sensitization:	No data available.
skin sensitization:	No data available.
Carcinogenicity:	Not listed by IARC and NTP.
Germ Cell Mutagenicity:	No data available.
Reproductive Toxicity:	No data available.
STOT-Single Exposure:	No data available.
STOT-Repeated Exposure:	No data available.
Aspiration Hazard:	No data available.

### 11.2. Information on the likely routes of exposure

Inhalation:	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion:	Contact with eyes may cause irritation.
Skin contact:	Substance may cause slight skin irritation.
Eye contact:	Ingestion may cause irritation to mucous membranes

## SECTION 12: Ecological information

### 12.1. Toxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Butan-1-ol (CAS #: 71-36-3)	500: 96 h Desmodesmus subspicatus mg/L EC50 500: 72 h Desmodesmus subspicatus mg/L EC50	1730 - 1910: 96 h Pimephales promelas mg/L LC50 static 1740: 96 h Pimephales promelas mg/L LC50 flow-through 100000 - 500000: 96 h Lepomis macrochirus µg/L LC50 static 1910000: 96 h Pimephales promelas µg/L LC50 static	1983: 48 h Daphnia magna mg/L EC50 1897 - 2072: 48 h Daphnia magna mg/L EC50 Static
Alcohols, C12-14-secondary, ethoxylated (CAS #: 84133-50-6)	-	3.2: 96 h Pimephales promelas mg/L LC50	-
Poly(oxyethylene) {structure-based}, poly(ethylene oxide) {source-based} (CAS #: 25322-68-3)	-	5000: 24 h Carassius auratus mg/L LC50	-



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5-Chlor-2-methyl-4-isothiazolin-3-one (CAS #: 26172-55-4)	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.31: 120 h Anabaena flos-aquae mg/L EC50	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	-
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### 12.2. Persistence and degradability

Based on best current information, there is no data known associated with this product.

### 12.3. Bioaccumulative potential

Chemical Name	Bioconcentration factor (BCF)
Butan-1-ol (CAS #: 71-36-3)	0.785
5-Chlor-2-methyl-4-isothiazolin-3-one (CAS #: 26172-55-4)	-0.71 - 0.75

Chemical Name	Bioconcentration factor (BCF)
Butan-1-ol (CAS #: 71-36-3)	0.64

### 12.4. Mobility in soil

Based on best current information, there is no data known associated with this product.

### 12.5. Other adverse effects

No information available

## SECTION 13: Disposal considerations

### 13.1. Safe handling and methods of disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

## SECTION 14: Transport information

14.1. UN Number Not regulated

14.2. Proper shipping name Not regulated



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<b>14.3. Hazard Class</b>	Not regulated
<b>14.4. Packing Group</b>	Not regulated
<b>14.5. Environmental hazards</b>	Not marine pollutant
<b>14.6. Special precautions</b>	No information available
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

Component	AICS	DSL/ND SL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	TSCA
Water 7732-18-5 (99.93622)	X	X	X	-	X	X	X	X
ethyl dimethyl [3-[(1-oxooctadecyl)amino]propyl]ammonium ethyl sulphate 67633-63-0 (0.021)	X	X	X	X	X	X	X	-
Butan-1-ol 71-36-3 (0.0115)	X	X	X	X	X	X	X	X
Quaternary ammonium compounds, cocoalkyl[(2,4-dichlorophenyl)methyl]dimethyl, chlorides 93572-62-4 (0.01)	-	-	X	-	X	-	-	-
Alcohols, C12-14-secondary,	X	X	-	X	X	X	X	X

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ethoxylated 84133-50-6 ( 0.01 )								
(C12- C16)Alkyl dimethyl(dich lorobenzyl)a mmonium chloride 68989-02-6 ( 0.0075 )	-	X	-	-	X	-	-	X
Poly(oxyethy lene) {structure- based},poly( ethylene oxide) {source- based} 25322-68-3 ( 0.0015 )	X	X	X	X	X	X	X	X
Alcohols, C12-14- secondary 126950-60- 5 ( 0.001 )	X	-	-	-	X	X	-	-
5-Chlor-2- methyl-4- isothiazolin- 3-one 26172-55-4 ( 0.00096 )	X	X	X	X	X	X	X	X
2-methyl-2H- isothiazol-3- one 2682-20-4 ( 0.00032 )	X	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

**15.2. US Federal Regulations**

**SARA 313**

Chemical Name	SARA 313 - Threshold Values %
Butan-1-ol - 71-36-3	1.0

**SARA 311/312 Hazard Categories**

Not applicable

**CWA (Clean Water Act)**

Not applicable



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**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Butan-1-ol 71-36-3	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations**

**California Proposition 65**

Not applicable

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Butan-1-ol 71-36-3	X	X	X

**SECTION 16: Other information**

**16.1. Abbreviations and acronyms**

Key or legend to abbreviations and acronyms used in the safety data sheet

- NIOSH**            The National Institute for Occupational Safety and Health
- OSHA**            The United States Occupational Safety and Health Administration
- TWA**             Time-weighted average
- STEL**            Short term exposure limit
- Ceiling**         Maximum limit value
- TSCA**            Toxic Substances Control Act, The American chemical inventory
- DSL/NDSL**      Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS**            Japan Existing and New Chemical Substances
- KECL**            Korean Existing and Evaluated Chemical Substances
- IECSC**          Inventory of existing chemical substances in China
- PICCS**          Philippines Inventory of Chemicals and Chemical Substances
- NTP**             National Toxicology Program

**16.2. Disclaimer**

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.

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