

# Safety Data Sheet

## SCREEN CLEANER

NS-CLNR

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

<b>Product name</b>	IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION
<b>Brand</b>	IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION
<b>Model no.</b>	Not applicable
<b>REACH registration no.</b>	Not applicable

### Relevant identified uses of the substance or mixture and uses advised against

<b>Recommended use</b>	CLEANING SOLUTION FOR SCREENS AND AUDIO/VIDEO/DIGITAL/COMPUTER PRODUCTS
<b>Uses advised against</b>	No information available

### Details of the supplier of the safety data sheet

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

### Emergency telephone number

<b>Emergency phone</b>	+086752-5952323-36
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## 2. HAZARDS IDENTIFICATION

**GHS– classification** Not classified as hazardous.

### 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.

**Description of any hazards not otherwise classified** No information available

**Ingredient with unknown acute toxicity** No information available



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 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) {structurebased}, poly(ethylene oxide) {sourcebased}	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



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## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	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.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Eye contact</b>	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.
<b>Ingestion</b>	If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person.

### Most important symptoms/effects, acute and delayed

No information available.

### 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.



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## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	No information available.

### Special hazards arising from the substance or mixture

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

### Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.



## 6. ACCIDENTAL RELEASE MEASURES

### 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.

### 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.



## 7. HANDLING & STORAGE

### 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.

### Conditions for safe storage, including any incompatibilities

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



## 8. EXPOSE CONTROLS/PERSONAL PROTECTION

### 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>	-
Poly(oxyethylene) {structurebased}, poly(ethylene oxide) {sourcebased} (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) {structurebased},poly(ethylene oxide) {sourcebased}  (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>	-

**Appropriate engineering controls**

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

**Personal protective equipment**

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection**

Wear protective gloves.

**Eye/Face protection:**

No special technical protective measures are necessary.

**Skin/Body protection**

Wear suitable protective clothing.



## 9. PHYSICAL & CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

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





## 10. STABILITY & REACTIVITY

<b>Reactivity</b>	Stable under recommended storage and handling conditions (see section 7, handling and storage).
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No information available.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous decomposition products</b>	None under normal use conditions.



## 11. TOXICOLOGICAL INFORMATION

### 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) {structurebased}, 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-isothiazolin-3-one (CAS #: 26172-55-4)	= 481 mg/kg (Rat)	-	= 1.23 mg/L (Rat) 4 h

<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/irritation</b>	No data available.
<b>Respiratory sensitization</b>	No data available.
<b>Skin sensitization</b>	No data available.
<b>Carcinogenicity</b>	Not listed by IARC and NTP.
<b>Germ Cell Mutagenicity</b>	No data available.
<b>Reproductive Toxicity</b>	No data available.
<b>STOT-Single Exposure</b>	No data available.
<b>STOT-Repeated Exposure</b>	No data available.
<b>Aspiration Hazard</b>	No data available.

### Information on the likely routes of exposure

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



12. ECOLOGICAL INFORMATION

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) {structurebased}, poly(ethylene oxide) {source-based} (CAS #: 25322-68-3)	-	5000: 24 h Carassius auratus mg/L LC50	-
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	-

Persistence and degradability

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

**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

**Mobility in soil**

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

**Other adverse effects**

No information available.



**13. DISPOSAL CONSIDERATIONS**

**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.



**14. TRANSPORT INFORMATION**

<b>UN number</b>	Not regulated.
<b>Proper shipping name</b>	Not regulated.
<b>Hazard class</b>	Not regulated.
<b>Packing group</b>	Not regulated.
<b>Environmental hazards</b>	Not marine pollutant.
<b>Special precautions</b>	No information available.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.



15. REGULATORY INFORMATION

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

International inventories

COMPONENT	AICS	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	TSCA
Water 7732-18-5 (99.93622)	X	X	X	-	X	X	X	X
Ethyldimethyl [3-[(1-oxoisooctadecyl) 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, coco alkyl [(2,4-dichlorophenyl) methyl] dimethyl, chlorides 93572-62-4 (0.01)	-	-	X	-	X	-	-	-
Alcohols, C12-14-secondary, ethoxylated 84133-50-6 (0.01)	X	X	-	X	X	X	X	X
(C12-C16) Alkyl dimethyl (dichlorobenzyl) ammonium chloride 68989-02-6 (0.0075)	-	X	-	-	X	-	-	X

COMPONENT	AICS	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	TSCA
Poly (oxyethylene) {structurebased}, Poly (ethylene oxide) {sourcebased}  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

**KEY:** -: Not listed X: Listed

### 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.

#### 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** Not applicable.

#### California Proposition 65

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

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Butan-1-ol 71-36-3	X	X	X



**16. OTHER INFORMATION**

**Abbreviations and acronyms**

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

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

**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.

**Version**

V1