



**MSDS Report**

No.: GZ1011132478A/CHEM

Date: DEC 03,2010

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This report is to supersede MSDS report GZ1011132478/CHEM

Client's Name : HALLOA ENTERPRISE CO., LTD.,  
 Client's Address : BUILDING B1,HAOER INDUSTRIAL AREA GONGHE INDUSTRIAL ROAD,SHAJING STREET ,BAOAN ZONE,SHENZHEN,CHINA

SGS Ref No. : GC101107066  
 : 4.4

Product Name : IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION  
 End Uses : CLEANING SOLUTION FOR SCREENS AND AUDIO/VIDEO/DIGITAL/COMPUTER PRODUCTS

Composition/Ingredient : Water (99.9359%); 5-Chlor-2-methyl-4-isothiazolin-3-one (0.0012%); 2-Methyl-4-isothiazolin-3-one (0.0004%); Alcohols C12-14-Secondary ethoxylated(0.01%); Alcohols C12-14-Secondary(0.001%); Polyethylene glycol (0.0015%); Butan-1-ol(0.0115%); Quaternare Ammoniumverbindrngen,Kokos-alkyl(2,4-dichlorphenyl)(0.01%); Ethyldimethyl[3-[(1-oxoisooctadecyl)amino]ammonium ethyl sulphate(0.021%); (C12-C16)Alkyl dimethyl(dichlorobenzyl)ammonium chloride(0.0075%)

Job Receiving Date : NOV 16, 2010  
 Preparation Period : NOV 16, 2010 TO NOV 30, 2010

**Service Requested**  
Material Safety Data Sheet for the Product

**SUMMARY**

The contents and format of this MSDS are in accordance with 29 CFR 1910.1200(g).

\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Allen Xie  
Approved Signatory

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SGS - Standards Technical Service Co., Ltd  
Guangzhou Industrial Chemical Laboratory

198 Kazhu Road, Sointech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | www.cn.sgs.com  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | sgs.china@sgs.com

# Material Safety Data Sheet

Printing date 12/03/2010

Reviewed on 11/20/2010

## 1 Identification of substance

- **Product details**
- **Trade name:** IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION
- **Article number:** Not available
- **Application of the substance / the preparation:**  
CLEANING SOLUTION FOR SCREENS AND AUDIO/VIDEO/ DIGITAL/COMPUTER PRODUCTS
- **Manufacturer/Supplier:**  
HALLOA ENTERPRISE CO., LTD.,  
BUILDING B1,HAOER INDUSTRIAL AREA GONGHE INDUSTRIAL ROAD,SHAJING STREET ,BAOAN ZONE,SHENZHEN,CHINA  
TEL:+86-755-27685380  
FAX:+86-755-27685379  
E-MAIL :halloa42@halloa.com.tw
- **Further information obtainable from:** HALLOA ENTERPRISE CO., LTD.,
- **Emergency information:** TEL:+86-755-27685380
- **Email:** halloa42@halloa.com.tw
- **Reference Number:** GC101107066-4.4; GZ1011132478A/CHEM

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

### · Dangerous components:

26172-55-4	5-Chlor-2-methyl-4-isothiazolin-3-one	0.0012%
2682-20-4	2-methyl-2H-isothiazol-3-one	0.0004%
71-36-3	butan-1-ol	0.0115%
93572-62-4	Quaternary ammonium compounds, coco alkyl[(2,4-dichlorophenyl)methyl]dimethyl, chlorides	0.01%

### · Non-dangerous components:

7732-18-5	water	99.9359%
67633-63-0	ethyl dimethyl[3-[(1-oxoisooctadecyl)amino]propyl]ammonium ethyl sulphate	0.021%
84133-50-6	Alcohols, C12-14-secondary, ethoxylated	0.01%
126950-60-5	Alcohols, C12-14-secondary	0.001%
25322-68-3	poly(oxyethylene) {structure-based}, poly(ethylene oxide) {source-based}	0.0015%
68989-02-6	(C12-C16)Alkyl dimethyl(dichlorobenzyl)ammonium chloride	0.0075%

### · Remark:

2-Methyl-4-isothiazolin-3-one (CAS No. :2682-20-4)

Synonym: 2-methyl-2H-isothiazol-3-one

Quaternary ammonium compounds, coco alkyl[(2,4-dichlorophenyl)methyl]dimethyl, chlorides(CAS No. : 93572-62-4)

Synonym: Quaternare Ammoniumverbindungen,Kokos-alkyl(2,4-dichlorphenyl)

poly(oxyethylene) {structure-based},poly(ethylene oxide) {source-based} (CAS No. :25322-68-3) Synonym: Polyethylene glycol

ethyl dimethyl[3-[(1-oxoisooctadecyl)amino]propyl]ammonium ethyl sulphate (CAS No. :67633-63-0)

Synonym: Ethyldimethyl[3-[(1-oxoisooctadecyl)amino]ammonium ethyl sulphate.

## 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
The product does not have to be labelled due to the calculation procedure of international guideline.

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**Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION**

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- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



## 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:**  
No dangerous substances are released.  
See Section 7 for information on safe handling.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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**Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION**

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- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Slight odour

### · Change in condition

<b>Melting point/Melting range:</b>	Not available
<b>Boiling point/Boiling range:</b>	Not available

· **Flash point:** Not available

· **Flammability (solid, gaseous):** Not available

· **Ignition temperature:** Not available

· **Decomposition temperature:** Not available

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

### · Explosion limits:

<b>Lower:</b>	Not available
<b>Upper:</b>	Not available

· **Oxidizing properties** Not available

· **Density:** Not available

· **Relative density** Not available

· **Vapour density** Not available

· **Evaporation rate** Not available

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**Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION**

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- |   |               |
|---|---------------|
| · <b>Solubility in / Miscibility with Water:</b>    | Not available |
| · <b>pH-value:</b>                                  | Not available |
| · <b>Segregation coefficient (n-octanol/water):</b> | Not available |
| · <b>Viscosity: Dynamic:</b>                        | Not available |

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Not available
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

25322-68-3 poly(oxyethylene) {structure-based},  
poly(ethylene oxide) {source-based}

Oral	LD50	15700 mg/kg (guinea pig) 28915 mg/kg (mouse)
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71-36-3 butan-1-ol

Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50/4 h	8000 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.

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USA

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Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **DOT regulations:**
- **Hazard class:** -
- **Identification number:** -
- **Packing group:** -
- **Proper shipping name (technical name):** -
- **Label** -
- **Remarks:** -

- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Packaging group:** -
- **Label:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **UN Number:** -
- **Label** -
- **Packaging group:** -
- **EMS Number:** -
- **Marine pollutant:** No
- **Propper shipping name:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label** -
- **Packaging group:** -
- **Proper shipping name:** -

**15 Regulations**

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

71-36-3 butan-1-ol

- **TSCA (Toxic Substances Control Act):**

7732-18-5 water

67633-63-0 ethyldimethyl[3-[(1-oxoisooctadecyl)amino]propyl]ammonium ethyl sulphate

71-36-3 butan-1-ol

84133-50-6 Alcohols, C12-14-secondary, ethoxylated

68989-02-6 (C12-C16)Alkyl dimethyl(dichlorobenzyl)ammonium chloride

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**Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION**

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· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

71-36-3 butan-1-ol

D

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance respective national laws.

The product is not classified as dangerous according to Directive 67/548/EEC, 1999/45/EC and 1272/2008/EC.

## 16 Other information

· \*\*\*\*\*  
The contents and format of this MSDS/SDS are in accordance with 29 CFR 1910.1200(g)

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