



SDS Report

No.: GZ1012150510/CHEM

Date: JAN 06, 2011

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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. : GC101208021
Product Name : IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION
End Uses : CLEANING SOLUTION FOR SCREENS AND AUDIO/VIDEO/ DIGITAL/COMPUTER PRODUCTS

Composition/Ingredient : Water (99.93622%); 5-Chlor-2-methyl-4-isothiazolin-3-one (0.00096%); 2-Methyl-4-isothiazolin-3-one (0.00032%); Alcohols C12-14-Secondary ethoxylated(0.01%); Alcohols C12-14-Secondary(0.001%); Polyethylene glycol (0.0015%); Butan-1-ol(0.0115%); Quaternare Ammoniumverbindngen,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 : DEC 30, 2010
Preparation Period : DEC 30, 2010 TO JAN 06, 2011

Service Requested

Safety Data Sheet for the Product

SUMMARY

The contents and format of this SDS are in accordance with REGULATION (EC) No. 1907/2006 and REGULATION (EC) No. 1272/2008.

Signed for and on behalf of
SGS-CSTC Ltd.

Allen Xie
Approved Signatory

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Safety Data Sheet

Regulation No. 1907/2006, 1272/2008

Printing date 06.01.2011

Revision: 18.11.2010

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION
- **Article number:** Not available
- **Registration number:** Not available
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- **Application of the substance / the preparation:**
CLEANING SOLUTION FOR SCREENS AND AUDIO/VIDEO/ DIGITAL/COMPUTER PRODUCTS
- **1.3 Details of the supplier of the safety data sheet**
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
- **Only Representative / other EU contact point:** Contact in Member State at confirmation stage
- **Further information obtainable from:** HALLOA ENTERPRISE CO., LTD.,
- **1.4 Emergency telephone number:** +86-755-27685380
- **Reference Number:** GC101208021; GZ1012150510/CHEM

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Hazard description:** Not Applicable
- **Information concerning particular hazards for human and environment:**
The product is not classified as dangerous according to Directive 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008.
- **Classification system:**
The classification is according to the latest edition of the EU Directive 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **GHS label elements:** Void
- **2.3 Other hazards:** Not available

3 Composition/information on ingredients

- **3.1 Substance:** Not applicable. Please refer to 3.2 for more information.
- **3.2 Mixture:** Please view below

- **Chemical characterization**

- **Description:**

Mixture of the substances listed below with nonhazardous additions.
For the wording of listed risk phrases refer to section 16.

- **Dangerous components:**

CAS: 71-36-3 EINECS: 200-751-6 EU number: 603-004-00-6	butan-1-ol Xn, Xi; R 10-22-37/38-41-67 Danger: 3.3/I, 3.2/2 Warning: 2.6/3; 3.1.O/4, 3.8/3	0,0115%
CAS: 26172-55-4 EINECS: 247-500-7	5-Chlor-2-methyl-4-isothiazolin-3-one T, C, N; R 23/24/25-34-43-50/53 Danger: 3.1.O/3, 3.1.D/3, 3.1.I/3, 3.4.S/I; 3.2/IB Warning: 4.1.A/1, 4.1.C/1	0,00096%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one T, C; R 24/25-34-43 Danger: 3.1.O/2, 3.1.D/2, 3.4.S/I; 3.2/IB	0,00032%

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· Non-dangerous components:		
CAS: 7732-18-5 EINECS: 231-791-2	water	99,93622%
CAS: 67633-63-0 EINECS: 266-778-0	ethyldimethyl[3-[(1-oxoisooctadecyl)amino]propyl]ammonium ethyl sulphate	0,021%
CAS: 84133-50-6	Alcohols, C12-14-secondary, ethoxylated	0,01%
CAS: 126950-60-5	Alcohols, C12-14-secondary	0,001%
CAS: 25322-68-3 NLP: 500-038-2	poly(oxyethylene) {structure-based}, poly(ethylene oxide) {source-based}	0,0015%
CAS: 68989-02-6	(C12-C16)Alkyl dimethyl(dichlorobenzyl)ammonium chloride	0,0075%
CAS: 93572-62-4 EINECS: 297-494-5	Quaternary ammonium compounds, coco alkyl[(2,4-dichlorophenyl)methyl]dimethyl, chlorides	0,01%

· **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

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

4 First aid measures

· **4.1 Description of 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.

· **Information for doctor:**

· **The following symptoms may occur:** Not available

· **Hazards** Not available

· **Treatment** Not available

· **4.2 Most important symptoms and effects, both acute and delayed:** Not available

· **4.3 Indication of any immediate medical attention and special treatment needed:** Not available

5 Firefighting measures

· **5.1 Extinguishing media**· **Suitable extinguishing agents:**

CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture:** Not available

· **Protective equipment:** No special measures required.

· **5.3 Advice for firefighters:** Not available

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6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections:** Please view below.

7 Handling and storage

- **7.1 Precautions for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **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.
- **Incompatibilities:** Not available
- **7.3 Specific end use(s):** Not available

8 Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients 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 valid during the making were used as basis.
- **8.2 Exposure controls:** Please view below
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** 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

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9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· Form:	Liquid
· Colour:	Colourless
· Odour:	Slight odour

· **Change in condition**

Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available
· Freezing point:	Not available

· Flash point:	Not available
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· Flammability (solid, gaseous):	Not available
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· Ignition temperature:	Not available
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· Decomposition temperature:	Not available
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· **Explosion limits:**

Lower:	Not available
Upper:	Not available

· Oxidizing properties	Not available
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· Density:	Not available
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· Relative density	Not available
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· Vapour density	Not available
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· Evaporation rate	Not available
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· Solubility in / Miscibility with water:	Not available
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· pH-value:	Not available
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· Partition coefficient (n-octanol/water):	Not available
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· Segregation coefficient (n-octanol/water):	Not available
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· **Viscosity:**

Dynamic:	Not available
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· 9.2 Other information:	Not available
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10 Stability and reactivity

· **10.1 Reactivity:** No decomposition if used according to specifications.

· **10.2 Chemical stability:** Not available

· **10.3 Possibility of hazardous reactions:** Not available

· **10.4 Conditions to avoid:** Not available

· **10.5 Incompatible materials:** Not available

· **Materials to be avoided:** Not available

· **Dangerous reactions:** No dangerous reactions known.

· **10.6 Hazardous decomposition products:** Not available

11 Toxicological information

· **11.1 Information on toxicological effects** Not available

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Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION

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· Acute toxicity
· LD/LC50 values 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 the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

· Toxicokinetics, metabolism and distribution: Not available

· Acute effects (acute toxicity, irritation and corrosivity): Not available

· Repeated dose toxicity: Not available

12 Ecological information

· 12.1 Toxicity: Not available

· 12.2 Persistence and degradability: Not available

· Other information:

5-Chlor-2-methyl-4-isothiazolin-3-one	26172-55-4	Biodegradable>90%
Water	7732-18-5	Biodegradable>90%
2-Methylisothiazol-3(2H)-one	2682-20-4	Biodegradable>90%
Alcohols C12-14-Secondary ethoxylated	84133-50-6	Biodegradable>90%
Alcohols C12-14-Secondary	126950-60-5	Biodegradable>90%
poly(oxyethylene) {structure-based}, poly(ethylene oxide) {source-based}	25322-68-3	Biodegradable>90%
Butan-1-ol	71-36-3	Biodegradable>90%
Quaternare Ammoniumverbindrngen, Kokos-alkyl(2,4-dichlorphenyl)	93572-62-4	Biodegradable>90%
Ethylldimethyl[3-[(1-oxoisooctadecyl)amino]ammonium ethyl sulphate	67633-63-0	Biodegradable>90%
(C12-C16)Alkyl dimethyl(dichlorobenzyl)ammonium chloride	68989-02-6	Biodegradable>90%

· 12.3 Bioaccumulative potential: Not available

· 12.4 Mobility in soil: Not available

· 12.5 Results of PBT and vPvB assessment: Not available

· 12.6 Other adverse effects: Not available

· Additional ecological information:
· General notes:

Water hazard class 1 (German Regulation) (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

· 13.1 Waste treatment methods Not available

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Trade name: IPA (ISOPROPYL ALCOHOL) FREE CLEANING SOLUTION

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- **Product**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **14.1 Land transport ADR/RID (cross-border)**

- 14.1.1 ADR/RID class: -
- **Danger code (Kemler):** -
- 14.1.2 UN-Number: -
- 14.1.3 Packaging group: -
- 14.1.4 Description of goods: -
- **Limited quantities (LQ):** -
- **Transport category:** -

- **14.2 Maritime transport IMDG**

- 14.2.1 IMDG Class: -
- 14.2.2 UN Number: -
- **Label:** -
- 14.2.3 Packaging group: -
- **EMS Number:** -
- **Marine pollutant:** No
- 14.2.4 Proper shipping name: -

- **14.3 Air transport ICAO-TI and IATA-DGR**

- 14.3.1 ICAO/IATA Class: -
- 14.3.2 UN/ID Number: -
- **Label:** -
- 14.3.3 Packaging group: -
- 14.3.4 Proper shipping name: -

- 14.4 Environmental hazards: Not available
- 14.5 Special precautions for users: Not available
- 14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

15 Regulatory information

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

- **Section 335 (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

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

26172-55-4 5-Chlor-2-methyl-4-isothiazolin-3-one

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2682-20-4 | 2-methyl-2H-isothiazol-3-one

· Proposition 65
· Chemical 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.

· Cancerogenity categories
· EPA(Environmental Protection Agency)

71-36-3 | butan-1-ol

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· 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.

· MAK(German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca(National Institution for Occupational Safety & Health)

None of the ingredients is listed.

· OSHA-Ca(Occupational Safety & Health Administration)

None of the ingredients is listed.

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance with EU Directives / respective national laws.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials

The product has is not classified as dangerous according to Directive 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008.

· National regulations
· Candidate List of Substances of very high concern (SVHC) according to ECHA (18/06/2010)

None of the ingredients is listed

· REACH Regulation Annex XVII Restriction List None of the ingredients is listed

· REACH Regulation Annex XIV Authorization Recommendation List None of the ingredients is listed

· 15.2 Chemical safety assessment: Not available

16 Other information

 The contents and format of this MSDS/SDS are in accordance with REGULATION(EC) No. 1272/2008, (EC) No. 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal

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of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

· **Relevant R-phrases**

- 10 Flammable.
- 22 Harmful if swallowed.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 24/25 Toxic in contact with skin and if swallowed.
- 34 Causes burns.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitization by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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End of report

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