



Test Report

No. 2149489/JL

Date : Dec 23 2009

Page 1 of 1

ANTARI LIGHTING & EFFECTS LTD
8, LANE 231, NANKAN RD.
SEC.1, LUCHU, TAO YUAN HSIEN
TAIWAN

The following sample was submitted and identified on behalf of the client as MG-550.

SGS Job No. : 3281432
Sample Receiving Date : DEC 01 2009
Last Information Date : DEC 01 – 23 2009

Test Requested : Material Safety Data Sheet (MSDS) for the product.

Summary : The contents and formats of this MSDS are in accordance with EEC Commission Directives 1967/548/EEC, 1999/45/EC and Regulation (EC) No 1907/2006.

*** End of Report ***

Signed for and on behalf of
SGS Hong Kong Ltd.

Chan Yu Yan, Cyrus
Section Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 Days only.
SGS Hong Kong Ltd. 1/F, 12/F & 20/F, Metropole Square, 2 On Yip Street, Shek Lok Yuen, Sham Shui Po, Hong Kong. t (852) 2334 4481 f (852) 2764 3126 www.hk.sgs.com

H20286772

1 Identification of the substance/preparation and of the company

- **Product details**
- **Trade name:** MG-550
- **Registration number** Not available
- **Application of the substance / the preparation** Mini Haze
- **Manufacturer/Supplier:**
Antari Lighting & Effects Ltd.
8, Lane 231, Nankan Rd., Sec. 1, Luchu, Tao Yuan Hsien, Taiwan, ROC.
Tel: +886 3 322-5829 311
Fax: +886 3 322-0433
Email: bruce@antari.com.tw
- **Further information obtainable from:** Antari Lighting & Effects Ltd.
- **Information in case of emergency:**
Bruce Hung
Tel: +886 3 322-5829 311
- **Reference Number:** 2149489/JL

2 Hazards identification

- **Hazard description:**



F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**
The product is classified as dangerous according to the EU directives of classification and labelling of substance and preparations (67/548/EEC, 1999/45/EC and 1272/2008/EC).
R 12 Extremely flammable.
- **Classification system:**
The classification is according to the latest editions of the EU Directives 67/548/EEC and 1999/45/EC, and extended by company and literature data.
- **Additional information:**
Important! This product contains substances that are of restricted use under Annex XVII of Regulation (EC) No. 1907/2006. For details, please refer to Section 15 and 16 of this Safety Data Sheet.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
Mixture of substances listed below with nonhazardous additions.
For the wording of the listed risk phrases refer to section 16.

- **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane	F+; R 12	61,6%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane	F+; R 12	26,4%

- **Non-dangerous components:**

CAS: 8042-47-5 EINECS: 232-455-8	White mineral oil (petroleum)		12,0%
-------------------------------------	-------------------------------	--	-------

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

Safety Data Sheet

1907/2006/EC

Printing date 19.12.2009

Revision: 17.12.2009

Trade name: MG-550

(Contd. of page 1)

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Handle with care. Avoid jolting, friction and impact.
Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from flammable substances.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 butane

REL (USA)	1900 mg/m ³ , 800 ppm
TLV (USA)	Varies mg/m ³ , 1000 ppm
WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0,1% of buta-1,3-diene)

74-98-6 propane

PEL (USA)	1800 mg/m ³ , 1000 ppm
REL (USA)	1800 mg/m ³ , 1000 ppm
TLV (USA)	Varies mg/m ³ , 1000 ppm

(Contd. on page 3)

Trade name: MG-550

(Contd. of page 2)

- *DNELs Not available*
- *PNECs Not available*
- **Additional information:** *The lists valid during the making were used as basis.*
- **Personal protective equipment:**
- **General protective and hygienic measures:** *Wash hands before breaks and at the end of work.*
- **Respiratory protection:** *Use suitable respiratory protective device in case of insufficient ventilation.*
- **Protection of hands:**
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:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information	
<i>Form:</i>	<i>Liquid</i>
<i>Colour:</i>	<i>Transparent</i>
<i>Odour:</i>	<i>Odourless</i>
· Change in condition	
<i>Melting point/Melting range:</i>	<i>Not available</i>
<i>Boiling point/Boiling range:</i>	<i>Not available</i>
· Flash point:	<i>Not available</i>
· Flammability (solid, gaseous):	<i>Not available</i>
· Self-igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</i>
· Explosion limits:	
<i>Lower:</i>	<i>Not available</i>
<i>Upper:</i>	<i>Not available</i>
· Oxidizing properties:	<i>Not available</i>
· Vapour pressure:	<i>Not available</i>
· Density:	<i>Not available</i>
· Relative density:	<i>Not available</i>
· Vapour density:	<i>Not available</i>
· Evaporation rate:	<i>Not available</i>
· Solubility in / Miscibility with water:	<i>Not miscible or difficult to mix.</i>

(Contd. on page 4)

Safety Data Sheet

1907/2006/EC

Printing date 19.12.2009

Revision: 17.12.2009

Trade name: MG-550

(Contd. of page 3)

- | | |
|---|---------------|
| · pH-value: | Not available |
| · Segregation coefficient (n-octanol/water): | Not available |
| · Viscosity:
Dynamic: | Not available |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

106-97-8 butane

Inhalative	LC50/4 h	658 mg/l (rat)
------------	----------	----------------

· **Primary irritant effect:**

- **on the skin:** Irritating effect possible
- **on the eye:** Irritating effect possible
- **Sensitization:** Sensitization possible through skin contact.
- **Toxicokinetics, metabolism and distribution** Not available
- **Acute effects (acute toxicity, irritation and corrosivity)** Not available
- **Repeated dose toxicity** Not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not available

12 Ecological information

- **Information about elimination (persistence and degradability):** Not available
- **Behaviour in environmental systems:** Not available
- **Ecotoxicological effects:**
- **Aquatic toxicity:** Not available
- **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.
- **PBT assessments** Not available

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

EU
(Contd. on page 5)

Trade name: MG-550

(Contd. of page 4)

14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 2 5 Gases.
- UN-Number: 1950
- Hazard label: 2.1
- Description of goods: 1950 AEROSOLS
- Limited quantities (LQ) 2
- Transport category 2
- Tunnel restriction code: D

· Maritime transport IMDG:



- IMDG Class: 2
- UN Number: 1950
- Label: 2.1
- EMS Number: F-D,S-U
- Marine pollutant: No
- Proper shipping name: AEROSOLS

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2
- UN/ID Number: 1950
- Label: 2.1
- Proper shipping name: AEROSOLS

15 Regulatory information

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· 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.

(Contd. on page 6)

Safety Data Sheet
1907/2006/EC

Printing date 19.12.2009

Revision: 17.12.2009

Trade name: MG-550

(Contd. of page 5)

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **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 Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Labelling according to EU guidelines:**

The product has been classified as dangerous in accordance with EU Directives 67/548/EEC, 1999/45/EC and 1272/2008/EC

· **Code letter and hazard designation of product:**

F+ Extremely flammable

· **Risk phrases:**

12 Extremely flammable.

· **Safety phrases:**

2 Keep out of the reach of children.

3 Keep in a cool place.

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

46 If swallowed, seek medical advice immediately and show this container or label.

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Candidate List of Substances of very high concern (SVHC) according to ECHA (28/10/2008)**

None of the ingredients is listed.

· **REACH Regulation Title XVII Restriction**

106-97-8	butane
74-98-6	propane

· **REACH Regulation Title XIV Authorization** None of the ingredients is listed.

16 Other information

The contents and format of this MSDS/SDS are in accordance with REGULATION(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 reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of

(Contd. on page 7)

Safety Data Sheet
1907/2006/EC

Printing date 19.12.2009

Revision: 17.12.2009

Trade name: MG-550

(Contd. of page 6)

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

12 Extremely flammable.

· Remark 1:

REACH Annex XVII Restricted-40

Butane (CAS no. 106-97-8) & Propane (CAS no. 106-97-8)

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,*
- artificial snow and frost,*
- "whoopee" cushions,*
- silly string aerosols,*
- imitation excrement,*
- horns for parties,*
- decorative flakes and foams,*
- artificial cobwebs,*
- stink bombs.*

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

"For professional users only".

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC [2].

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

End of Document