Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	HAKU GB 3668		
Revision date :	03.02.2012	**Version (Revision) :**	101.0.0 (100.0.0)
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
HAKU GB 3668

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Product categories

PC9 - Coatings and paints, fillers, putties, thinners

PC35 - Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor)
Kluthe UK Limited

Street : Midsummer Court, 314 Midsummer Boulevard

Postal code/city : MK9 2UB / Milton Keynes

Telephone : +44 (0)1908 847449

Telefax : +44 (0)1908 847559

E-mail (competent person) : sds@kluthe.nl

1.4 Emergency Telephone Number : +44 (0)870 190 6777 24hrs
NL - Nationaal Vergiftigingen Informatie Centrum NVIC - Bilthoven + 31 30 274 88 88 (Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen) // BE - Antigifcentrum - Brussel + 32 70 245 245 (een arts beantwoordt uw oproep) // BE - Centre Anti-poison - Bruxelles + 32 70 245 245 (un médecin répondra à votre appel). // D - Antigifcentrum (Duitsland - Berlin) : +49 30 450 653565 // S - Swedish Poisons Information Center 112 begär Giftinformationscentralen // UK - Anti-poison center (UK) : +44 870 600 6266

2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Directive 67/548/EEC or 1999/45/EC
Highly flammable. · Harmful by inhalation and in contact with skin. · Irritating to skin.

F ; R 11 · Xn ; R 20/21 · Xi ; R 38

Classification procedure

Calculation method. Harmonised (legal) classification.

2.2 Label elements
Labelling (67/548/EEC or 1999/45/EC)
Hazard symbols and hazard statements of dangerous substances and preparations


F ; Highly flammable


Xn ; Harmful

Hazard components for labelling

XYLENE ; CAS No. : 1330-20-7

R-phrases

11	Highly flammable.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.

S-phrases

35	This material and its container must be disposed of in a safe way.
51	Use only in well-ventilated areas.

36/37	Wear suitable protective clothing and gloves.
16	Keep away from sources of ignition - No smoking.
33	Take precautionary measures against static discharges.
9	Keep container in a well-ventilated place.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

XYLENE ; EC No : 215-535-7; CAS No. : 1330-20-7

Weight fraction :	50 - 100 %
Classification 67/548/EEC :	R10 Xn ; R20/21 Xi ; R38
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

N-BUTYL ACETATE ; REACH registration No. : 01-2119485493-29-0000 ; EC No : 204-658-1; CAS No. : 123-86-4

Weight fraction :	25 - 50 %
Classification 67/548/EEC :	R10 R67 R66
Classification 1272/2008 [CLP] :	Flam. Liq. 3 ; H226 STOT SE 3 ; H336

ETHYL ACETATE ; REACH registration No. : 01-2119475103-46-xxxx ; EC No : 205-500-4; CAS No. : 141-78-6

Weight fraction :	2,5 - 10 %
Classification 67/548/EEC :	F ; R11 Xi ; R36 R67 R66
Classification 1272/2008 [CLP] :	Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

4. First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

Dizziness. Headache. Impairment of vision. Nausea. Vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

None

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam. Carbon dioxide (CO2). Extinguishing powder. Water spray

Unsuitable extinguishing media

High power water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4 Reference to other sections

See sections 8 &13

7. Handling and storage

7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists Take precautionary measures against static discharges.

Fire prevent measures

Keep away from sources of ignition - No smoking. Usual measures for fire prevention. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Storage class : 3

7.3 Specific end use(s)

None

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) :	Maximum limit in the atmosphere at the workplace (D)
Limit value :	100 ppm / 440 mg/m^3
Peak limitation :	2(II)
Remark :	H
Version :	02-07-2009
Limit value type (country of origin) :	STEL (EC)
Limit value :	100 ppm / 442 mg/m^3
Remark :	H
Version :	08-06-2000
Limit value type (country of origin) :	TWA (EC)
Limit value :	50 ppm / 221 mg/m^3
Remark :	H
Version :	08-06-2000

ETHYL ACETATE ; CAS No. : 141-78-6

Limit value type (country of origin) :	Maximum limit in the atmosphere at the workplace (D)
Limit value :	400 ppm / 1500 mg/m^3
Peak limitation :	2(I)
Remark :	Y
Version :	02-07-2009

Biological limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Xylene / Whole blood (B) / End of exposure or end of shift
Limit value :	1,5 mg/l
Version :	31-03-2004
Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value :	2 g/l
Version :	31-03-2004

8.2 Exposure controls

Personal protective equipment

Eye / face protection

Eye glasses with side protection

Skin protection

Hand protection

Additional hand protection measures : Check leak tightness / impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Remark : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Lab coat. Overall.

Suitable protective clothing : For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes. Only wear fitting, comfortable and clean

protective clothing.

Required properties : Antistatic. flame-resistant heat-resistant

Recommended material : Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus

Filterimg device (DIN EN 147). Filtering device with filter or ventilator filtering device of type: A

General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Physical state :			Liquid	
Colour:			Colourless	
Odour:			like organic solvent	
FROST FREE STORAGE			No	
Melting point / range :	(1013 hPa)	<	-30	°C
Boiling point / range :	(1013 hPa)		75 - 140	°C
Flash point :			18	°C
Ignition temperature :			370	°C
Lower explosion limit :		>	1,2	Vol-%
Upper explosion limit :		<	7,5	Vol-%
Vapour pressure :	(20 °C)		1,95	kPa
Density :	(20 °C)		0,87 - 0,88	g/cm^3
Solubility in water :	(20 °C)	<	0,8	Wt %

9.2 Other information

None

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

10.6 Hazardous decomposition products

Carbon dioxide (CO2). Carbon monoxide.

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. May cause respiratory irritation.

11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation / mixture itself.

Non-human toxikological data
No information available.

11.3 Other adverse effects
Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Has degreasing effect on the skin.

Observations relevant to classification
No information available.

11.4 Additional information
The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC). Toxicological data are not available.

12. Ecological information

12.1 Toxicity
No information available.

12.2 Persistence and degradability
No information available.

12.3 Bioaccumulative potential
No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
No information available.

12.6 Other adverse effects
No information available.

12.7 Further ecological information
None

13. Disposal considerations

Dispose according to legislation.

13.1 Waste treatment methods
No information available.

13.2 Additional information
None

14. Transport information

14.1 UN number
1263

14.2 UN proper shipping name
Land transport (ADR/RID)
PAINT RELATED MATERIAL

Sea transport (IMDG)
PAINT RELATED MATERIAL

Air transport (ICAO-TI / IATA-DGR)
PAINT RELATED MATERIAL

14.3 Transport hazard class(es)
Land transport (ADR/RID)

Class(es) :	3
Classification code :	F1
Hazard identification number (Kemler No.) :	33

Tunnel restriction code : D/E
Special provisions : 640D · LQ 6 · E 2
Hazard label(s) : 3

Sea transport (IMDG)
Class(es) : 3
EmS-No : F-E / S-E
Special provisions : LQ 5 l · E 2
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)
Class(es) : 3
Special provisions : E 2
Hazard label(s) : 3

14.4 Packing group
II

14.5 Environmental hazards
Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user
None

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
Water hazard class (WGK)
Class : 2 (Hazardous to water) Classification according to VwVwS

International regulatory information
This product contains max.: 875 g/l VOC

15.2 Chemical safety assessment
No information available.

16. Other information

16.1 Indication of changes
02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling (67/548/EEC or 1999/45/EC) - Hazard components for labelling

16.2 Abbreviations and acronyms
None

16.3 Key literature references and sources for data
None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.
Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.
Acute Tox. 4 ; H312 - Acute toxicity (dermal) : Category 4 ; Harmful in contact with skin.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms

Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

XYLENE ; CAS No. : 1330-20-7

Hazard Statements

H225	Highly flammable liquid and vapour.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332/313	If skin irritation occurs: Get medical advice/attention.
P403/235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents / container to a licensed waste processing company.

16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
10	Flammable.
11	Highly flammable.
20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
38	Irritating to skin.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

16.6 Training advice

None

16.7 Additional information

We have no knowledge or control over the user´s working conditions however. The user is responsible for the observance of all required statutory provisions. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.