SDS REPORT

SKANDI DENMARK A/S

30 INDUSTRIVEJ , DK 3300 FREDERIKSVÆRK

SDS Report No.	:	SDS2016121002
Compilation Date	:	Dec 10, 2016
Sample Name	:	Utility Lighter
Composition/Ingredient of The Sample	:	See Section 3 on the SDS
Service Requested	:	Safety Data Sheet (SDS) for the sample with submitted composition.
Summary	:	As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, 1272/2008, Regulation (EU) No 2015/830 and is provided per attached.

Signed for and on behalf of FOCO Technical Center:

Johnny zhang

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

· **1.1 Product identifier**

· **Trade name:** Utility Lighter

· **Registration number:** Data not available

· **1.2 Relevant identified uses of the substance or mixture and uses advised against on**

· **Application of the substance/ mixture:** Fire ignition

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

NINGBO OUQI [illegible]

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· **[illegible] representative/other EU contact point:**

Overseas Trading Limited
Top Floor Tayson House,
Methley Road,
Castleford,
WF10 1PA
Tel: +44 (0)1977 512 244
Fax: +44 (0) 1977 512 688
Email: sales@otltd.co.uk

· **Further information obtainable from:** NINGBO OUQI SMOKING SET CO., LTD

· **1.4 Emergency telephone number**

Tel: +44 (0)1977 512 244

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

Classification according to regulation (EC) 1272/2008:

GHS02 Flam

Flam. Gas 1 H220 Extremely flammable gas

GHS04 Gas cylinder

Press.Gas H280 Contains gas under pressure; may explode if heated

· **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of Regulation 1272/2008.

· **Classification system:**

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

· **2.2 Label elements**

· **Labeling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms:**

GHS02 GHS04

· **Signal word:** Danger

· **Hazard-determining components of the labeling:** Butane, Propane, Ethane.

· **Hazard statements:**

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated

· **Precautionary statement:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P403	Store in a well-ventilated place.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

· **Additional information:**

Important! This product contains substance that is of restricted use under Annex XVII of Regulation (EC) No. 1907/2006. For details, please refer to Section 15 of this Safety Data Sheet.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterization:** Mixtures

· **Description:**

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

· **Components:**

CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0	Isobutane Flam. Gas 1, H220; Press.Gas, H280	51.6%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Propane Flam. Gas 1, H220; Press.Gas, H280	25.1%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	Butane Flam. Gas 1, H220; Press.Gas, H280	21.5%
CAS No.: 74-84-0 EC No.: 200-814-8 Index No.: 601-002-00-X	Ethane Flam. Gas 1, H220; Press.Gas, H280	1.8%

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation: Supply with fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.

After skin contact: Rinse skin with soap and water. If skin irritation or rash occurs: Get medical attention.

After eye contact: Rinse cautiously with water for at least 15 minutes. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After swallowing: Rinse out mouth with water. Do not induce vomiting. Call a POISON CENTER or doctor/physician if feel unwell.

· **4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

SECTION 5: Fire-fighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** Dry chemical, alcohol-resistant foam, powder, carbon dioxide and water spray.

· **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.

· **5.3 Advice for firefighters**

Protective equipment:

Wear fully protective suit; Mouth respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures:**

Leaking gas fire: Do not extinguish, unless leak can be stopped safely; Eliminate all ignition sources if safe to do so; Evacuate personnel to safe areas; Ensure adequate ventilation; Use respiratory protective device against the effects of gas.

· **6.2 Environmental precautions:**

Do not allow the product to enter sewers/surface or ground water; Inform respective authorities in case of seepage into water course or sewage system; Do not allow to enter sewers/surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation; Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections:**

See section 7 for information on safe handing; See section 8 for information on personal protection equipment; See section 13 for disposal in formation.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling:**

Read label before use; Ensure good ventilation/exhaustion at the workplace; Keep receptacles tightly sealed; Keep away from flame and ignition source; Ground/bond container and receiving equipment.

· **Information about fire and explosion protection:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking; Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting/equipment.

· **7.2 Conditions for safe storage, including any non-compatibility**

· **Requirements to be met by storerooms and receptacles:** Protect from sunlight; Store in cool, dry and well-ventilation condition.

· **Information about storage in one common storage facility:** Keep out of reach of children; Keep away from flammable substance.

· **Further information about storage conditions:** Store in cool well-ventilation condition.

· **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

Country	Limit value - Eight hours	Limit value - Short term
1 CAS No.: 75-28-5 Isobutane		
Belgium	1000ppm;	
Finland	800ppm;1900 mg/m³	1000ppm; 2400 mg/m³(15 minutes average value)
Germany (AGS)	1000ppm;2400 mg/m³	4000ppm; 9600mg/m³(15 minutes average value)
Germany (DFG)	1000ppm;2400 mg/m³	4000ppm; 9600mg/m³
2 CAS No.: 74-98-6 Propane		
Austria	1000ppm;1800 mg/m³	2000ppm; 3600mg/m³
Belgium	1000ppm;	
Denmark	1000ppm;1800 mg/m³	2000ppm; 3600mg/m³
Finland	800ppm;1500 mg/m³	1100ppm; 2000mg/m³(15 minutes average value)
Germany (AGS)	1000ppm;1800 mg/m³	4000ppm; 7200mg/m³(15 minutes average value)
Germany (DFG)	1000ppm;1800 mg/m³	4000ppm; 7200mg/m³
Poland	1800 mg/m³	
Spain	1000ppm;	
3 CAS No.: 106-97-8 Butane		
Austria	800ppm;1600 mg/m³	1600ppm; 3800mg/m³
Belgium	1000ppm; 1928 mg/m³	
Denmark	500ppm;1200 mg/m³	1000ppm; 2400mg/m³
Finland	800ppm;1900 mg/m³	1000ppm; 2400mg/m³
France	800ppm;1900 mg/m³	
Germany (AGS)	1000ppm;2400 mg/m³	4000ppm; 9600mg/m³(15 minutes average value)
Germany (DFG)	1000ppm;2400 mg/m³	4000ppm; 9600mg/m³(15 minutes average value)
Hungary	2350 mg/m³	
Latvia	300 mg/m³	
Poland	1900 mg/m³	3000 mg/m³
Spain	800ppm;1935 mg/m³	
United Kingdom	600ppm;1450 mg/m³	700ppm;1810 mg/m³
4 CAS No.: 74-84-0 Ethane		
Finland	1000ppm	

· **DNELs:** Data not available

· **PNECs:** Data not available

· **Additional information:** The lists valid during the marking were used as basis.

· **8.2 Exposure controls**

· **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

· **Appropriate engineering controls:**
Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of work.
See section 7 for information about design of technical facilities.
· **Personal protective equipment**
· **Respiration protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **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 composition, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material:**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Safety glasses

· **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **Appearance:**	
Form	Liquid
Color	Clean, colorless
Odor	Data not available
Odor threshold	Data not available
· **pH-value**	Data not available
· **Change in condition**	
Melting point/melting range	Data not available
Boiling point and boiling range	Data not available
· **Freezing point**	Data not available
· **Flash point:**	<23°C
· **Flammability (solid, gas)**	Flammable gas
· **Decomposition temperature**	Data not available
· **Self-ignition**	Product is not self-ignition.
· **Danger of explosion**	Heating will be explosive.
· **Explosion limits**	

Lower:	Data not available
Upper:	Data not available
· Oxidizing properties	Data not available
· Vapor pressure	Data not available
· Density	Data not available
· Relative density	Data not available
· Vapor density	Data not available
· Evaporation rate	Data not available
· Solubility in/Miscibility with	
Water	Data not available
· Partition coefficient (n-octanol/water)	Data not available
· Viscosity	
Dynamic	Data not available
Kinematic	Data not available
· 9.2 Other information	Data not available

SECTION 10: Stability and reactivity

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

· **10.2 Chemical stability:** Stable under recommended storage conditions.

· **10.3 Possibility of hazardous reactions:** No further relevant information available.

· **10.4 Conditions to avoid:** High temperature and hot surface.

· **10.5 Incompatible materials:** Flammable substance.

· **10.6 Hazardous decomposition products:** No further relevant information available.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity**

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

1 CAS No.: 75-28-5 Isobutane		
Rat	LC50-inhalation	570000ppm/15M
2 CAS No.: 106-97-8 Butane		
Rat	LC50-inhalation	658000mg/m3/4H
Mouse	LC50-inhalation	680000mg/m3/2H

· **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

· **Serious eyes damage/ irritation:** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

1 CAS No.: 75-28-5 Isobutane	
Short–term toxicity to fish	LC50 (4 days) 24.11 - 147.54 mg/L
Short–term toxicity to aquatic invertebrates	LC50 (48 h) 14.22 - 69.43 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 7.71 - 19.37 mg/L
2 CAS No.: 74-98-6 Propane	
Short–term toxicity to fish	LC50 (4 days) 24.11 - 147.54 mg/L
Short–term toxicity to aquatic invertebrates	LC50 (48 h) 14.22 - 69.43 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 7.71 - 19.37 mg/L

· **12.2 Persistence and degradability:**

75-28-5	Isobutane	Dissipation half life=5.222 years(in air); Biodegradation: Readily biodegradable(in water)
74-98-6	Propane	Dissipation half life=5.222 years(in air); Biodegradation: Readily biodegradable(in water)
106-97-8	Butane	Dissipation half life=5.222 years(in air); Biodegradation: Readily biodegradable(in water)
74-84-0	Ethane	Biodegradation: Readily biodegradable(in water)

· **12.3 Bio-accumulative potential:**

75-28-5	Isobutane	Log Pow = 2.76 at 20 °C and pH 7
74-98-6	Propane	Log Pow = 2.36 at 20 °C and pH 7
106-97-8	Butane	Log Pow = 2.89 at 20 °C and pH 7
74-84-0	Ethane	Log Pow = 1.81 at 20 °C and pH 7

· **12.4 Mobility in soil:** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

· **12.6 Other adverse effects:** No further relevant information available.

· **12.7 Additional ecological information**

· **General notes:** Water hazard class 1(German Regulation) (self-assessment): Slightly hazardous for water environment.

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

SECTION 13:Disposal consideration

· **13.1 Waste treatment methods**

· **Recommendation:** Must not be disposed together with household garbage.

· **13.2 Un-cleaned packaging**

· **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

·**14.1 UN-Number**	
ADR, RID, ADN IMDG, IATA	UN1057
·**14.2 UN proper shipping name**	
ADR, RID, ADN IMDG, IATA	LIGHTERS
·**14.3 Transport hazard class (es)**	
ADR, RID, ADN IMDG, IATA	
Class	2.1 Compressed gas
Label	2.1
·**14.4 Packing group**	
ADR, RID, ADN IMDG, IATA	Not applicable
·**14.5 Marine pollution**	No
·**14.6 Special precautions for user**	Warning; Compressed gas

·14.7 UN "Model Regulation"	UN1057, LIGHTERS, 2.1 Compressed gas

SECTION 15: Regulatory information

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

· **MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances- ANNEX I:** None of the ingredients is listed.

· **Seveso category:** P2 FLAMMABLE GASES

· **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 10 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 50 t

· **National regulations.**

· **Water hazard class:** Water hazard class 1(German Regulation) (self-assessment): Slightly hazardous for water environment.

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

· **SVHC Candidate list of REACH Regulation Annex XIV Authorization (17/12/2015):** None of the ingredients is listed.

· **REACH Regulation Annex XVII Restriction (16/2/2016):**

75-28-5	Isobutane
74-98-6	Propane
106-97-8	Butane
74-84-0	Ethane

· **REACH Regulation Annex XIV Authorization List (14/8/2014):** None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

The information in this 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 any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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· **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).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

***EC50**: Concentration of maximal effect, 50 percent*

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End of safety data sheet