MULTI-PURPOSE LIGHTER

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BIC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **BIC MEGALIGHTER** U110, U120, U140 Product code:

Recommended uses: Flame-producing device mostly used to ignite chimney fires, barbecues, candles

and gas stoves

Misuse may cause serious injury

Refer to safety symbols or to instructions and warnings on packaging before use :

"Keep away from children"

"Ignite utility lighter away from face and clothing" "Do not use to light cigarettes, cigars, or pipes" "Be sure flame is completely out after each use"

"Never expose to heat above 50°C or to prolonged sunlight"

"Never puncture or put in fire"

"Follow all instructions and warnings provided by grill or other appliance

manufacturer when using this product"

"Do not keep lit for more than 30 seconds" "Contains flammable gas under pressure" Each individual lighter conforms to ISO 22702 This list of information is not exhaustive

SUPPLIER:

Name: SOCIETE DU BRIQUET JETABLE 75 - "BJ 75"

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2. COMPOSITION / INFORMATION ON INGREDIENTS

ARTICLE: Multi-purpose lighter

Thermoplastic casing with liquefied hydrocarbon fuel mixture

Components contributing to the hazard:

Substance name Contents CAS No / EC No / Index No Symbol(s) R-Phrase(s) Isobutane mixture (type A50) 100 % 75-28-5 / 200-857-2 / 601-004-00-0 F+ Further information:

The main components of the lighter's body are high molecular weight polymers:

- Polyoxymethylene (CAS: 25231-38-3)

Residual formaldehyde content in polymer: < 50 ppm - Polyamide 66 thermoplastic (Nylon) (CAS: 32131-17-2)

- Acrylonitrile Butadiene Styrene (ABS) and Styrene Acrylonitrile (SAN) copolymer

3. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:

Adverse human health effects: Gas lighters when used normally do not present a health hazard

Further data: Isobutane mixture (type A50): Presents narcotic effects

Gas is heavier than air. May accumulate in low areas

Physical and chemical hazards:

- Fire or explosion : Extremely flammable liquefied gas

May form flammable/explosive vapour-air mixtures

Intense accidental overheating (for example in case of fire) may create rupture of its

reservoir and, in certain conditions, may lead to the ignition of the gas

- Further hazards : Risk of rupture of individual lighters when submitted to abnormal impact Classification of the product: According to EC regulations, this product is not classified as a "hazardous

preparation".

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4. FIRST AID MEASURES

In the event of exposure to high concentrations of gas or combustion fumes from

reservoirs:

Move the affected person away from the contaminated area and into the fresh air

Consult a doctor if necessary

Skin contact: Plastic casing:

In case of contact with molten polymer, cool skin rapidly with cold water. Do not peel

polymer from the skin

Isobutane mixture (type A50):

In the event of contact with the liquid: treat resulting frostbite as a burn

Eye contact: Rinse immediately and thoroughly with plenty of water whilst keeping the eyes wide

open (at least15 minutes)

Consult an eye specialist immediately

Ingestion: Not specifically applicable (gas)

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Foam Powders Water

Specific hazards: Intense accidental overheating may create rupture of its reservoir and, in certain

conditions, may lead to the ignition of the gas

An explosion hazard exists on heating

Polyoxymethylene burns with colourless flame and may release formaldehyde

vapors

Dangerous vapors (NH3, HCN) may be released by combustion of polyamid 66 ABS/SAN copolymer may release toxic vapors by combustion, or dense black

smoke when combustion is not complete

Protection of fire-fighters : Self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No flames, no sparks. Eliminate all sources of ignition.

Environmental precautions : No particular/specific measures required

Methods for cleaning up:

- Disposal : Dispose of materials or solid residues at an authorized site

7. HANDLING AND STORAGE

HANDLING

Technical measures : Does not require any specific or particular technical measures

Precautions: Avoid high temperatures

STORAGE

Technical measures : Provide appropriate exhaust ventilation in storage places

Storage conditions:

- Recommended : Store :

- away from any source of ignition

- in a cool and dry area (10-40 °C, 30-70% HR)

- To be avoided : Avoid the storage of lighters close to highly flammable materials

Incompatible materials: Strong oxidizing agents

Packaging materials:

Recommended : Original packaging
 Not suitable : None, to our knowledge

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure good ventilation of the work station

Occupational exposure limits:

- France : Isobutane mixture (type A50) :

Isobutane : No specific limit

Butane : VME : 1900 mg/m³ (800 ppm)

Propane : No specific limit

- Germany : Isobutane mixture (type A50) :

Isobutane: MAK value: 2400 mg/m³ (1000 ppm) Butane: MAK value: 2400 mg/m³ (1000 ppm) Propane: MAK value: 1800 mg/m³ (1000 ppm)

- USA (ACGIH): Isobutane mixture (type A50):

Isobutane: No specific limit Butane: TLV (TWA) = 800 ppm Propane: TLV (TWA) = 2500 ppm

Personal protective equipment: No specific/particular measures required for this product. Comply with good

occupational hygiene practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquefied gas
Colour: colourless
Odour: hydrocarbons
pH: Not applicable

Specific temperatures:

- Melting : - Polyoxymethylene (Acétal) : 172 °C

- Polyamide 66 (Nylon) : 254 °C

- Boiling : Isobutane mixture (type A50) : -19 °C

Flammability characteristics :

- Flash point : Isobutane mixture (type A50) : -89 °C

- Auto-ignition temperature : Isobutane : > 420 °C (1.013 bar)

Propane : > 480 °C (1.013 bar)

Explosive limits in air : Isobutane mixture (type A50) :

- Lower : 1.8 % (volume)
- Upper : 9.6 % (volume)

Vapour pressure : Isobutane mixture (type A50) : 3.4 bar (21 °C)

Vapour density (air = 1) : Isobutane mixture (type A50) : 1.8884 (15.5 °C)

Relative density (water = 1) : Isobutane mixture (type A50) : 0.5626 (15.5 °C)

Solubility:

- in water : Isobutane mixture (type A50) : Very slightly soluble

Polymers : Insoluble

Evaporation rate: Isobutane mixture (type A50): immediate

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions :

- Conditions to avoid : May explode or ignite :

- on contact with hot surfaces or flames

- above 50 °C

- Materials to avoid : Isobutane mixture (type A50) :

Reacts violently with:
- strong oxidizing agents

- Hazardous decomposition products : On combustion or on thermal decomposition (pyrolysis) releases :

toxic fumes (H2CO, NH3, HCN...)

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11. TOXICOLOGICAL INFORMATION

Acute toxicity:

No health effects were seen in humans exposed at 1000 ppm for up to 8 hours Can have central nervous system and asphyxiant effects at high concentrations (

well above the lower explosion limit in air, 18000 ppm)

(published data)

Local effects: Isobutane mixture (type A50): The gas is not irritating to the skin and to the eyes

Rapid evaporation of the liquid may cause frostbite. Irreversible damage may result

in severe cases

Isobutane: No adverse effects have been reported from repeated or prolonged Chronic/long term toxicity:

exposure

Specific effects:

- Mutagenicity: Isobutane: inactive during in vitro genotoxicity tests

(published data)

12. ECOLOGICAL INFORMATION

MOBILITY:

Destination of the product: Isobutane mixture (type A50): Air: 100 %

BIOACCUMULATION:

Octanol/water partition coefficient : Isobutane: 2.7 (log POW)

(published data)

Not potentially bioaccumulable

13. DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT:

Conform to current legislation, regulations and orders Destruction/Disposal:

NOTE: The user's attention is drawn to the possible existence of specific european, national

or local regulations regarding disposal

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS:

- UN No. 1057

Land transportation:

Air (ICAO-IATA):

Class: 2 - Rail/road (RID/ADR):

Classification code: 6F Packing group: -

Hazard identification number : -

Labelling: 2.1

Sea (IMO/IMDG): Class: 2.1

Packing group: -

Emergency schedule (EmS): F-D, S-U

Labelling: 2 Class: 2.1

Packing group: -

Labelling: Flammable gas

Passenger aircraft: Packing instruction: 201

Quantity: 1 kg Cargo aircraft:

Packing instruction: 201 Quantity: 15 kg

NOTE: The above regulatory prescriptions are those valid on the date of publication of this

Given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be

advisable to check their validity with your commercial agency

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15. REGULATORY INFORMATION

EC LABELLING:

Symbols and indications of danger : No symbolR phrases : No R phrase

- S phrases : Gas contained in the lighter :

S2: Keep out of the reach of children.

S15: Keep away from heat.

The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS The user's attention is drawn to the possible existence of additional provisions which complete these regulations Refer to all applicable international, national and local regulations or provisions

16. OTHER INFORMATION

Restrictions on use: This product must not be used for other applications that mentionned in §1.

* Update: This sheet was updated (refer to the date at the top of this page)

Texts which have been modified since the previous version are marked with an

asterisk (*)

Safety data sheet established by: LISAM SERVICES - TELEGIS

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www.telegis.com

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risk incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

End of document