MULTI-PURPOSE LIGHTER

Page : 1

Version : 7

Date : 25/5/2010

Supersedes : 19/1/2009

BIC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

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"

Address: 14, Rue Jeanne d'Asnières

92611 CLICHY Cédex

FRANCE

Telephone number : + 33 02 99 71 21 60 Telefax number : +33 02 99 71 38 82

E-mail: Bic.Contact@bicworld.com

EMERGENCY TELEPHONE NUMBER: ORFILA (France): +33 01 45 42 59 59

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:

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

Further data: Petroleum gases, liquefied, sweetened:

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".

3. 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)

 Petroleum gases, liquefied.
 : 100 %
 68476-86-8 / 270-705-8 / 649-203-00-1
 F+
 12

sweetened

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

SOCIETE DU BRIQUET JETABLE 75

MULTI-PURPOSE LIGHTER

Page : 2

Version : 7

Date : 25/5/2010

Supersedes : 19/1/2009

BIC

3. COMPOSITION / INFORMATION ON INGREDIENTS

(continued)

- Polyamide 66 thermoplastic (Nylon) (CAS: 32131-17-2)

- Acrylonitrile Butadiene Styrene (ABS) and Styrene Acrylonitrile (SAN) copolymer Petroleum gases, liquefied, sweetened : 19.5 % Propane & 80.5 % Isobutane

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

Petroleum gases, liquefied, sweetened:

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 least 15 minutes)

Consult an eye specialist immediately Not specifically applicable (gas)

5. FIRE-FIGHTING MEASURES

Ingestion:

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)

SOCIETE DU BRIQUET JETABLE 75

MULTI-PURPOSE LIGHTER

Page : 3

Version : 7

Date : 25/5/2010

Supersedes : 19/1/2009

BIC

7. HANDLING AND STORAGE

(continued)

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

Incompatible materials: Strong oxidizing agents

Packaging materials:

Recommended: Original packagingNot suitable: None, to our knowledge

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Ensure good ventilation of the work station

Occupational exposure limits:

- France : Petroleum gases, liquefied, sweetened :

Isobutane: No specific limit

Butane : VME : 1900 mg/m³ (800 ppm)

Propane: No specific limit

- Germany : Petroleum gases, liquefied, sweetened :

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): Petroleum gases, liquefied, sweetened:

Isobutane: No specific limit Butane: TLV (TWA) = 1000 ppm Propane: TLV (TWA) = 1000 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 : Petroleum gases, liquefied, sweetened : -23 °C - -11 °C

Flammability characteristics :

- Flash point : Petroleum gases, liquefied, sweetened : -104 °C

- Auto-ignition temperature : Isobutane : > 420 °C (1.013 bar)
Propane : > 480 °C (1.013 bar)

Explosive limits in air: Petroleum gases, liquefied, sweetened:

- Lower : 1.8 % (volume) - Upper : 9.5 % (volume)

Vapour pressure : Petroleum gases, liquefied, sweetened : 3.4 bar (21 °C)

Vapour density (air = 1): Petroleum gases, liquefied, sweetened : 1.89
Relative density (water = 1): Petroleum gases, liquefied, sweetened : 0.552

Solubility:

- in water : Petroleum gases, liquefied, sweetened : Very slightly soluble

Polymers : Insoluble

Evaporation rate : Petroleum gases, liquefied, sweetened : immediate

MULTI-PURPOSE LIGHTER

Page : 4

Version : 7

Date : 25/5/2010

Supersedes : 19/1/2009

BIC

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 : Petroleum gases, liquefied, sweetened :

Reacts violently with:
- strong oxidizing agents

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

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Isobutane:

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: Petroleum gases, liquefied, sweetened: The gas is not irritating to the skin and to

he eyes

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

in severe cases

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

exposure

Specific effects:

- Mutagenicity: Isobutane: inactive during in vitro genotoxicity tests

(published data)

12. ECOLOGICAL INFORMATION

MOBILITY:

Destination of the product: Petroleum gases, liquefied, sweetened: Air: 100 %

BIOACCUMULATION:

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

(published data)

Not potentially bioaccumulable

13. DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT:

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

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:

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

Classification code : 6F

Packing group: Rigid outer packagings meeting the packing group II performance

level shall be used

Hazard identification number : -

SOCIETE DU BRIQUET JETABLE 75

MULTI-PURPOSE LIGHTER

Page : 5

Version : 7

Date : 25/5/2010

Supersedes : 19/1/2009

BIC

14. TRANSPORT INFORMATION

(continued)

Sea (IMO/IMDG): Class: 2.1

Packing group: Rigid outer packagings meeting the packing group II performance

level shall be used

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

Labelling: 2.1 Class: 2.1

Labelling: 2.1

Packing group: Rigid outer packagings meeting the packing group II performance

level shall be used Labelling : Flammable gas Passenger aircraft : Packing instruction : 201 Quantity : 1 kg

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

sheet

Given the possible evolution of transport regulations for hazardous materials, in case the date of issue is older than 12 months, compared to the current one, it would be advisable to check their validity with your commercial agency

15. REGULATORY INFORMATION

EC LABELLING:

Air (ICAO-IATA):

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

6 rue des Boucheries F-60400 NOYON

www.reachelp.com

Safety Made Easy with www.lisam.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.

MULTI-PURPOSE LIGHTER

Page : 6

Version : 7

Date : 25/5/2010

Supersedes : 19/1/2009

BIC

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