



Carl Warrlich GmbH
99830 Treffurt

Date printed 07.08.2015, Revision 27.07.2015

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

1.1 Product identifier

Barbecue Lighter - Florett

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

1.2.1 Relevant uses

Firelighter

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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99830 Treffurt / GERMANY
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E-mail carl@warrlich.de

Address enquiries to

Technical information carl@warrlich.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)361-730730 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Sol. 2: H228 Flammable solid.

2.2 Label elements

Hazard pictograms



Signal word WARNING

Hazard statements H228 Flammable solid.

Precautionary statements 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.

2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.



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SECTION 3: Composition / Information on ingredients**Product-type:**

The product is a mixture.

Range [%]	Substance
70 - 80	Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics
	CAS: 64771-72-8, EINECS/ELINCS: 929-018-5, Reg-No.: 01-2119475608-26
	GHS/CLP: Asp. Tox. 1: H304

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

Inhalation

Remove person to fresh air and keep comfortable for breathing.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Foam.
Dry powder.
Sand.
Water spray jet.
Carbon dioxide.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment.



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6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Hot product gives off flammable vapours.

Keep away from all sources of ignition.

Vapours can form an explosive mixture with air.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep in a cool place. Store in a dry place.

Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (GB)

Range [%]	Substance
70 - 80	Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics
	CAS: 64771-72-8, EINECS/ELINCS: 929-018-5, Reg-No.: 01-2119475608-26
	Long-term exposure: 1200 mg/m ³



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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,4mm butyl rubber, > 120 min (EN 374)
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions.
Thermal hazards	yes
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	solid
Color	white
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not required
Lower explosion limit	0,4 Vol. %
Upper explosion limit	7,0 Vol. %
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	~ 0,1 (20°C)
Density [g/ml]	not determined
Bulk density [kg/m³]	not determined
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not applicable
Autoignition temperature [°C]	> 200
Decomposition temperature [°C]	not determined

9.2 Other information

< 45 s /100 mm (A.10) burning time

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.



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10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
ATE-mix, inhalative, > 20 mg/l 4h.

Range [%]	Substance
70 - 80	Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics, CAS: 64771-72-8
	LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).
	LD50, oral, Rat: > 2000 mg/kg (OECD 401).
	LC50, inhalative, Rat: > 5000 mg/m³ (OECD 403).

Serious eye damage/irritation Non-corrosive / non-irritating.

Skin corrosion/irritation Non-corrosive / non-irritating.

Respiratory or skin sensitisation Non-sensitizing.

Specific target organ toxicity — single exposure No classification.

Specific target organ toxicity — repeated exposure No classification.

Mutagenicity There is no evidence of any mutagenic effects.

Reproduction toxicity There is no evidence of any reproductive toxicity effects.

Carcinogenicity There is no evidence of any carcinogenic effects.

Aspiration hazard No classification.

General remarks

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.
No classification on the basis of the calculation procedure.



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SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
70 - 80	Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics, CAS: 64771-72-8
	EL50, (72h), <i>Skeletonema costatum</i> : > 1000 mg/l.
	EL50, (48h), <i>Daphnia magna</i> : > 1000 mg/l.
	NOELR, (28d), fish: 0,139 mg/l.
	NOELR, (21d), <i>Daphnia magna</i> : 0,361 mg/l.
	LL50, (96h), <i>Oncorhynchus mykiss</i> : > 1000 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not applicable

Biological degradability not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

160305*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150102
150110*

SECTION 14: Transport information**14.1 UN number**

See SECTION 14.2 in accordance with UN shipping name



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14.2 UN proper shipping name

Transport by land according to ADR/RID	UN 2623 Firelighters, solid 4.1 III
- Classification Code	F1
- Label	
- ADR LQ	5 kg
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 4 (E)
Inland navigation (ADN)	UN 2623 Firelighters, solid 4.1 III
- Classification Code	F1
- Label	
Marine transport in accordance with IMDG	UN 2623 Firelighters, solid 4.1 III
- EMS	F-A, S-I
- Label	
- IMDG LQ	5 kg
Air transport in accordance with IATA	UN 2623 Firelighters, solid 4.1 III
- Label	

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (1999/13/CE)	75-79 %



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15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Flam. Sol. 2: H228 Flammable solid. (On basis of test data)

Modified position

SECTION 4 been added: Take off contaminated clothing and wash before reuse.

SECTION 4 been added: Remove person to fresh air and keep comfortable for breathing.

SECTION 7 been added: Vapours can form an explosive mixture with air.

SECTION 7 been added: Use only in well-ventilated areas.

SECTION 8 been added: Protective clothing.

SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 8 deleted: Short term: filter apparatus, combination filter A-P2.

SECTION 8 deleted: Breathing apparatus in the event of high concentrations.

SECTION 12 been added: Accumulation in organisms is not expected.

SECTION 16 been added: On basis of test data



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